Link-Belt®
CONSTRUCTION EQUIPMENT

HTC - 8660

CRANE RATING MANUAL
4 - SECTION POWER BOOM

SERIAL NUMBER E9I8-8362

For Replacement, Order Part Number: E9P0106
(020501)

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⚠ WARNING

READ AND UNDERSTAND THE OPERATOR'S AND SAFETY MANUAL AND THE FOLLOWING INSTRUCTIONS AND RATED LIFTING CAPACITIES BEFORE OPERATING THE CRANE. OPERATION WHICH DOES NOT FOLLOW THESE INSTRUCTIONS MAY RESULT IN AN ACCIDENT.

OPERATING INSTRUCTIONS

GENERAL:

1. Rated lifting capacities in pounds as shown on lift charts pertain to this crane as originally manufactured and normally equipped. Modifications to the crane or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this crane must be in compliance with the information in the Operator's, Parts and Safety Manuals supplied with this crane. If these manuals are missing, order replacements through the distributor.
3. The operator and other personnel associated with this crane shall read and fully understand the latest applicable American National Standards ASME B30.5 safety standards for cranes.
4. The rated lifting capacities are based on crane standing level on firm supporting surface.

SET UP:

1. The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger pontoons or tires to spread the load to a larger bearing surface.
2. When making lifts on outriggers, all tires must be free of supporting surface. All outrigger beams must be extended to the same length; fully retracted, intermediate extended, or fully extended. The front bumper outrigger must be properly extended.
3. When operating on fully retracted outriggers, do not exceed 70° maximum boom angle with 12,000 lb. counterweight. Loss of backward stability will occur causing a backward tipping condition.
4. When making lifts on tires, they must be inflated to the recommended pressure. (See Operation note 20 and Tire Inflation.)
5. Before swinging boom to over side position on tires, or on fully retracted outriggers where capacities are not published, boom sections must be fully retracted and 45° boom angle maintained.
6. For required parts of line, see Wire Rope Capacity and Winch Performance.
7. When installing or removing counterweights, crane must be on fully extended outriggers and boom fully retracted. Do not exceed a 30 ft. radius when moving counterweights.
8. Before setting up on intermediate outriggers, retracted outriggers, or tires, refer to Working Range Diagrams and rated lifting capacities to determine allowable crane configurations.

OPERATION:

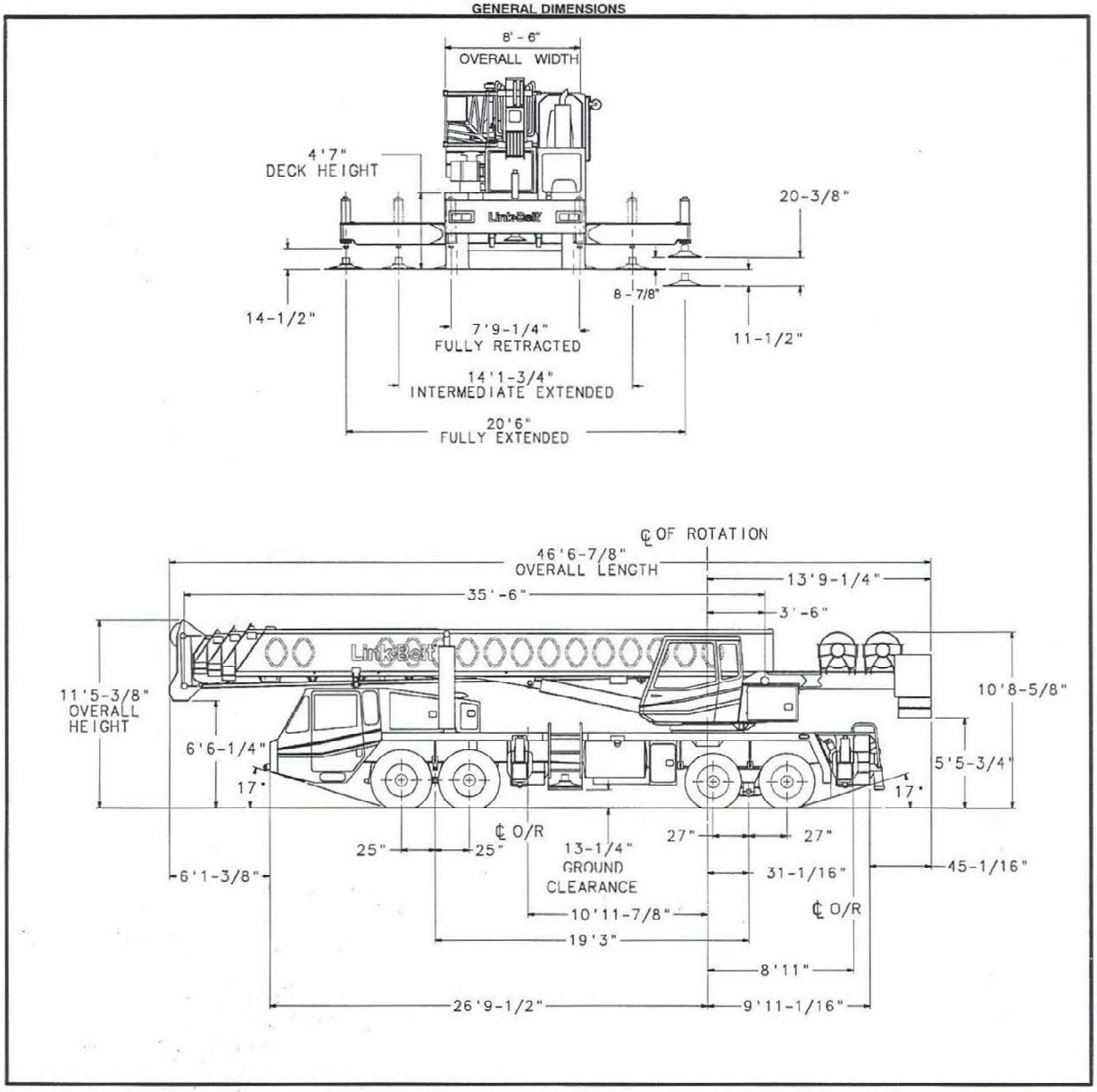
1. Rated lifting capacities at rated radius shall not be exceeded. Do not tip the crane to determine allowable loads. For concrete bucket operation, weight of bucket and load shall not exceed 80% of rated lifting capacities. For clamshell bucket operation, weight of bucket and bucket contents is restricted to a maximum weight of 7,000 pounds or 80% of rated lifting capacity, whichever is less. For magnet operation, weight of magnet and load is restricted to a maximum weight of 7,000 pounds or 80% of rated lifting capacity, whichever is less. For clamshell and magnet operation, maximum boom length is restricted to 55 ft. and the boom angle is restricted to a minimum of 35 degrees. Lifts with either fly erected is prohibited for both clam and magnet operation.
2. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads. Rated lifting capacities shown on intermediate extended or fully retracted outriggers are determined by the formula, rated load = (tipping load – 0.1 X load factor)/1.25. Rated lifting capacities shown on tires do not exceed 75% of the tipping loads. Tipping loads are determined by SAE crane stability test code J–765.
3. Rated lifting capacities in the shaded areas above the bold lines, are based on structural strength or hydraulic limitations and have been tested to meet minimum requirements of SAE J–1063 cantilevered boom crane structures–method of test. The rated lifting capacities below the bold lines are based on stability ratings. Some capacities are limited by a maximum obtainable 78° boom angle.
4. Rated lifting capacities include the weight of the hook block, slings, bucket, magnet and auxiliary lifting devices. Their weights must be subtracted from the listed rated capacity to obtain the net load which can be lifted. Rated lifting capacities include the deduct for either fly stowed on the base of the boom. For deducts of either fly erected, but not used, see Capacity Deductions For Auxiliary Load Handling Equipment.

5. Rated lifting capacities are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.
6. Rated lifting capacities are for lift crane service only.
7. Do not operate at radii or boom lengths (minimum or maximum) where capacities are not listed. At these positions, the crane can tip or cause boom failure.
8. The maximum loads which can be telescoped are not definable because of variation in loadings and crane maintenance, but it is permissible to attempt retraction and extension within the limits of the applicable load rating chart.
9. For main boom capacities when either boom length or radius or both are between values listed, proceed as follows:
   a. For boom lengths not listed, use rating for next longer boom length or next shorter boom length, whichever is smaller.
   b. For load radii not listed, use rating for next larger radius.
10. The user shall operate at reduced ratings to allow for adverse job conditions, such as: soft or uneven ground, out of level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, traveling with loads, electrical wires, etc. Side load on boom or fly is dangerous and shall be avoided.
11. Rated lifting capacities do not account for wind on suspended load or boom. Rated capacities and boom length shall be appropriately reduced as wind velocity approaches or exceeds 20 mph.
12. When making lifts with auxiliary head machinery, the effective length of the boom increases by 2 ft.
13. Power sections of boom must be extended in accordance with boom mode "A" or "B". In boom mode "B" all power sections must be extended or retracted equally.
14. The least stable rated working area depends on the configuration of the crane set up.
15. Rated lifting capacities are based on correct reeving. Deduction must be made for excessive reeving. Any reeving over minimum required (see Wire Rope Capacity) is considered excessive and must be accounted for when making lifts. Use working range diagram to estimate the extra feet of rope then deduct 1 lb. for each extra foot of wire rope before attempting to lift a load.
16. The loaded boom angle combined with the boom length give only an approximation of the operating radius. The boom angle, before loading, should be greater to account for deflection. For main boom capacities, the loaded boom angle is for reference only. For fly capacities, the loaded radius is for reference only.
17. For fly capacities with main boom length less than 110 ft. and greater than 85 ft., the rated capacities are determined by the boom angle using the 110 ft. boom and fly chart. For angles not shown use the next lower boom angle to determine the rated capacity.
18. For fly capacities with main boom length less than 85 ft., the rated capacities are determined by the boom angle only using the 85 ft. boom and fly chart. For angles not shown, use the next lower boom angle to determine the rated capacity.
19. The 35.5 ft. boom length rated lifting capacities are based on boom fully retracted. If the boom is not fully retracted, do not exceed capacities shown for the 45 ft. boom length.
20. Rated lifting capacities on tires depend on tire capacity, condition of tires, and tire air pressure. On tire capacities require lifting from main boom head only on a smooth and level surface. Pick and carry operations are restricted to maximum speed of 1 mph . The boom must be centered over the rear of the crane with two position travel swing lock engaged and the load must be restrained from swinging. For correct tire pressure, see "Tire Inflation".

DEFINITIONS:

1. Load Radius: Horizontal distance from a projection of the axis of rotation to the supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
2. Loaded Boom Angle: The angle between the boom base section and horizontal with freely suspended load at the rated radius.
3. Working Area: Area measured in a circular arc about the center line of rotation as shown on the Working Area Diagram.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.
6. No Load Stability Limit: The radius or boom angle beyond which it is not permitted to position the boom because the crane can overturn without any load on the hook.
7. Load Factor: Load applied at the boom tip which gives the same moment effect as the boom mass.

GENERAL DIMENSIONS



TIRE INFLATION

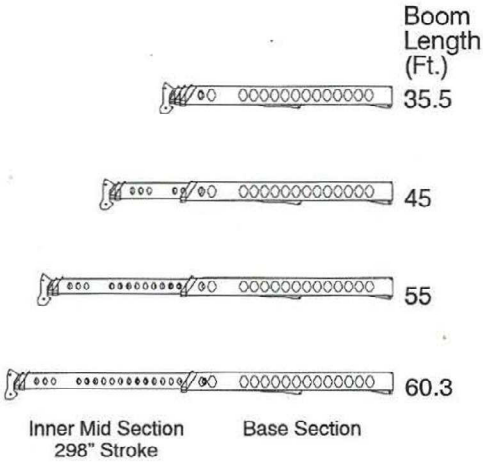
Tire Size	Operation	Tire Pressure (PSI)
12 R 22.5	1 MPH Stationary	120 120
295/80 R 22.5	1 MPH Stationary	110 110

PONTOON LOADINGS

Maximum Pontoon Load:	Maximum Pontoon Ground Bearing Pressure:
97,400 Lbs.	215 PSI

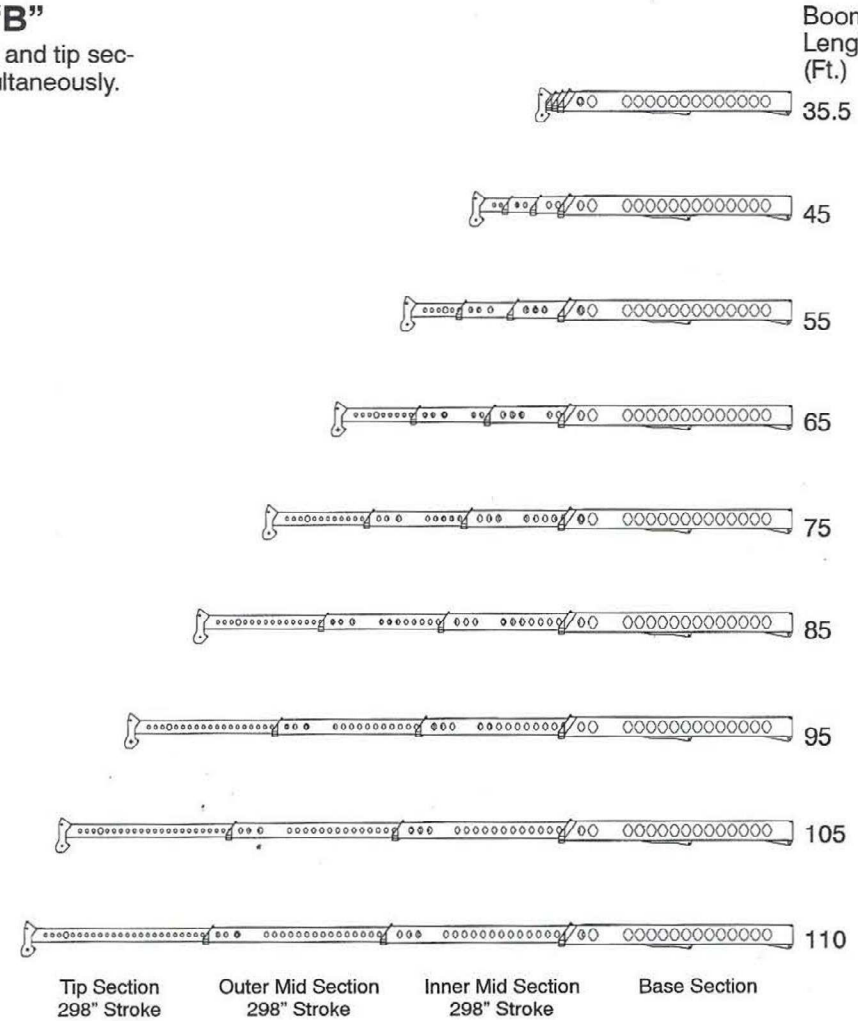
Boom Mode "A"

Only inner mid section telescopes.



Boom Mode "B"

Inner mid, outer mid and tip sections telescope simultaneously.



WINCH PERFORMANCE

Winch Line Pulls			Drum Rope Capacity (Ft.)	
	Two Speed Winch			
Wire Rope Layer	Low Speed Available Lbs.*	High Speed Available Lbs.	Layer	Total
1	16,348	7,711	110	110
2	15,112	7,090	119	229
3	13,985	6,561	129	358
4	13,014	6,105	138	496
5	12,169	5,709	148	644
6	N/A	N/A	158	802
*Maximum lifting capacity: Type RB Rope=12,920 Type ZB Rope=15,600				

WIRE ROPE CAPACITY

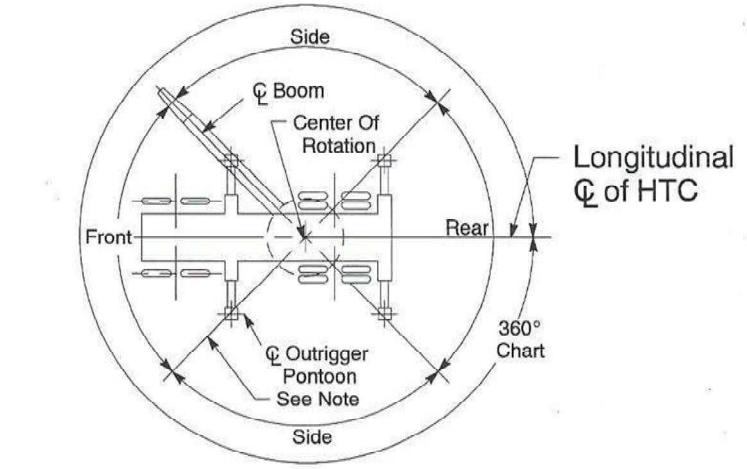
Maximum Lifting Capacities Based On Wire Rope Strength			
Parts of Line	3/4" Type RB	3/4" Type ZB	Notes
1	12,920*	15,600	Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in the Crane Rating Manual. Study Operator's Manual for wire rope inspection procedures. *Use of swivel end with 1 part of line is not recommended.
2	25,840	31,200	
3	38,760	46,800	
4	51,680	62,400	
5	64,600	79,000	
6	77,520	93,600	
7	90,440	109,200	
8	103,360	124,800	
9	116,280	140,400	
10	129,200	156,000	

LBCE	DESCRIPTION
TYPE RB	18 X 19 Rotation Resistant - Extra Improved Plow Steel - Preformed Right Lay - Regular Lay, Swaged
TYPE ZB	36 X 7 Rotation Resistant - Extra Improved Plow Steel - Right Lay - Regular Lay

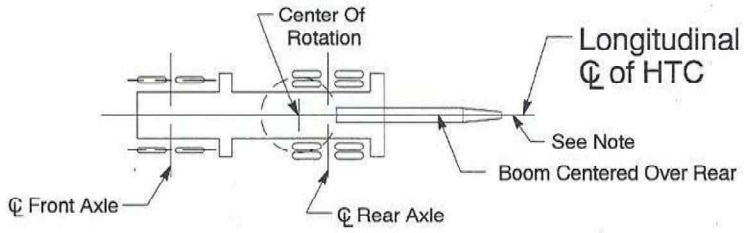
HYDRAULIC CIRCUIT PRESSURE SETTINGS

Function	Pressure (PSI)
Front And Rear Winch	2750
Outriggers	3000
Boom Hoist	2900
Telescope	3000
Swing	1500
Steering	2000
Bumper Outrigger	650
Pilot Control	500
Counterweight Removal	1500

WORKING AREAS



HTC On Outriggers



HTC On Tires

Note: These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.

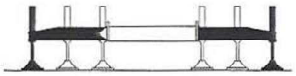
CAPACITY DEDUCTIONS FOR AUXILIARY LOAD HANDLING EQUIPMENT

Load Handling Equipment	Weight (Lbs.)
Auxiliary Head Attached	100
40 Ton Quick Reeve 4 Sheave Hook Block (See Hook Block For Actual Weight)	720
60 Ton Quick Reeve 4 Sheave Hook Block (See Hook Block For Actual Weight)	1100
70 Ton Quick Reeve 5 Sheave Hook Block (See Hook Block For Actual Weight)	1400
8.5 Ton Hook Ball (See Hook Ball For Actual Weight)	360
Lifting From Main Boom With:	
34 Ft. Or 56 Ft. Fly Stowed On Base (See Operation Note 4)	0
34 Ft. Offset Fly Erected But Not Used	4200
56 Ft. Offset Fly Erected But Not Used	7300
Lifting From 34 Ft. Offset Fly With:	
22 Ft. Fly Tip Erected But Not Used	**PROHIBITED**
22 Ft. Fly Tip Stowed On 34 Ft. Offset Fly	**PROHIBITED**

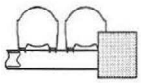
Note: Capacity deductions are for Link-Belt supplied equipment only.

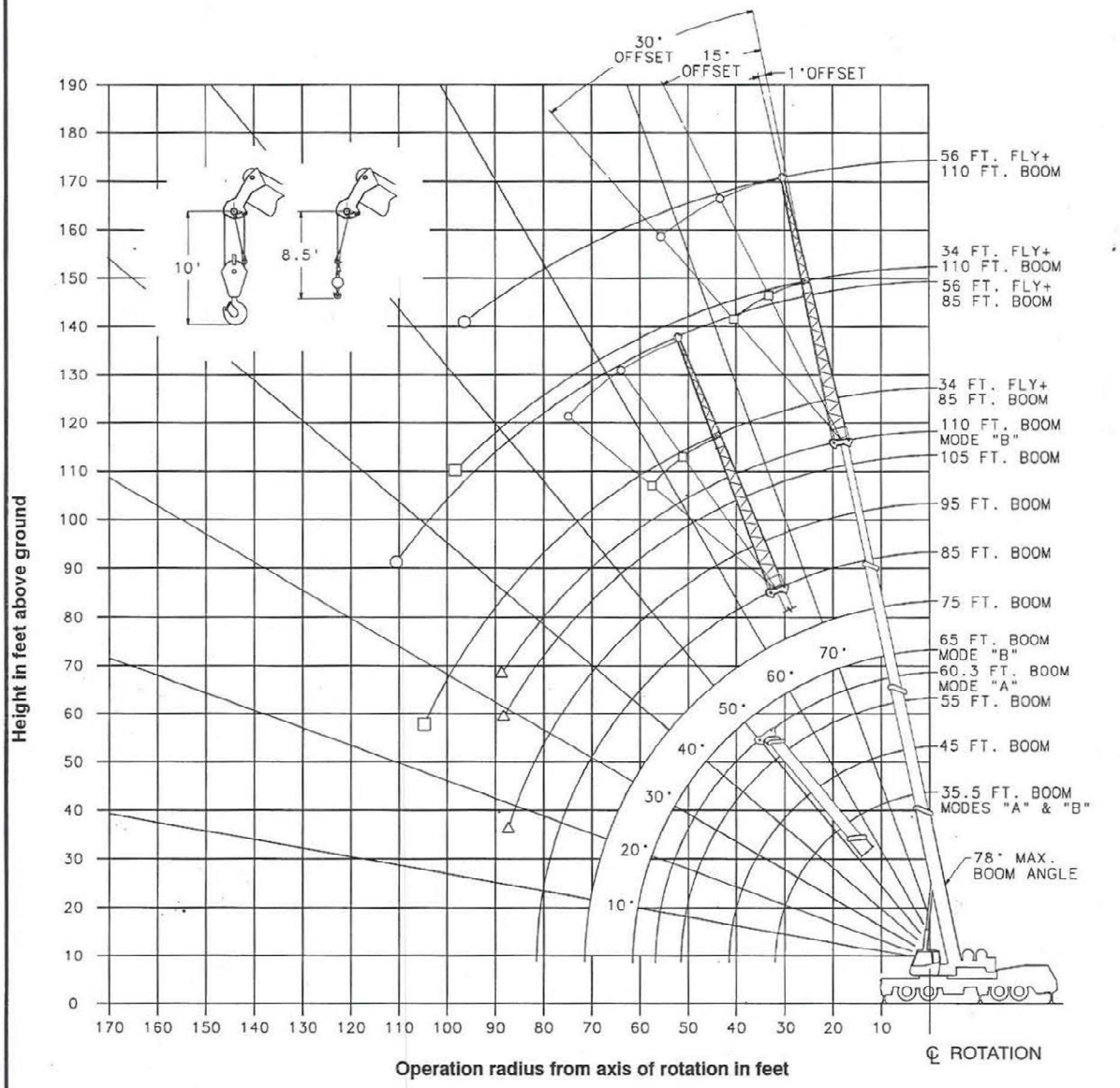
WORKING RANGE DIAGRAM

Working Range Diagram
On Fully Extended Outriggers



6,000# Counterweight



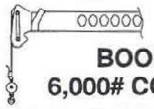


○ **Denotes Main Boom + 56' Fly–Boom Mode "B"**
□ **Denotes Main Boom + 34' Fly–Boom Mode "B"**
△ **Denotes Main Boom–Boom Mode "B"**

Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

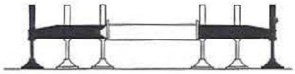
⚠ WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



BOOM MODE "A"
6,000# COUNTERWEIGHT

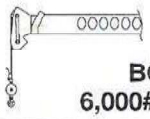
Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



35.5 Ft. To 45 Ft. Main Boom

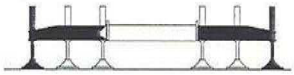
Load Radius In Feet	35.5 Ft.			45 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
10	68.5	105,000	105,000	73.5	87,100	87,100	10
12	65.0	93,300	93,300	71.0	87,100	87,100	12
15	59.5	79,600	79,600	66.5	79,200	79,200	15
20	49.5	61,100	61,100	59.5	60,600	60,600	20
25	37.5	40,300	45,900	51.5	39,600	45,200	25
30	20.0	27,600	32,500	42.5	27,300	32,400	30
35				32.0	19,900	24,300	35
40				15.5	14,700	18,600	40
Min.Boom Angle/Cap.	0	19,900	19,900	0	13,200	13,200	Min.Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "A"
6,000# COUNTERWEIGHT

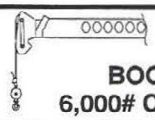
Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



55 Ft. To 60.3 Ft. Main Boom

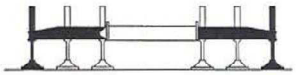
Load Radius In Feet	55 Ft.			60.3 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
10	77.0	79,500	79,500				10
12	75.0	72,200	72,200	76.5	61,300	61,300	12
15	71.5	63,300	63,300	73.5	57,600	57,600	15
20	66.0	52,100	52,100	68.5	47,100	47,100	20
25	60.0	38,900	44,000	63.0	38,700	39,500	25
30	53.5	26,800	31,900	57.5	26,500	31,700	30
35	46.5	19,500	24,000	51.5	19,300	23,900	35
40	38.5	14,700	18,600	45.0	14,500	18,500	40
45	29.0	11,200	14,600	37.5	11,100	14,600	45
50	14.0	8,400	11,500	28.5	8,400	11,600	50
55				15.0	6,300	9,100	55
Min.Boom Angle/Cap.	0	7,500	8,400	0	5,500	6,500	Min.Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
6,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



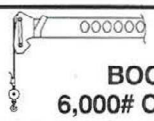
35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.			45 Ft.			55 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
10	68.5	105,000	105,000	73.0	42,000	42,000	76.5	42,000	42,000	10
12	65.0	93,300	93,300	70.5	42,000	42,000	74.5	42,000	42,000	12
15	59.5	79,600	79,600	66.5	42,000	42,000	71.5	42,000	42,000	15
20	49.5	61,100	61,100	59.5	42,000	42,000	65.5	42,000	42,000	20
25	37.5	40,300	45,900	51.5	41,300	42,000	59.5	41,900	42,000	25
30	20.0	27,600	32,500	42.5	28,800	33,800	53.5	29,400	34,300	30
35				32.0	21,300	25,600	46.5	21,900	26,200	35
40				15.5	16,100	19,900	38.5	16,900	20,800	40
45							29.0	13,300	16,700	45
50							14.0	10,400	13,500	50
Min. Boom Angle/Cap.	0	19,900	19,900	0	14,300	14,300	0	9,600	10,200	Min. Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom

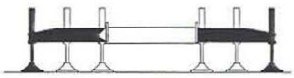
Load Radius In Feet1	65 Ft.			75 Ft.			85 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
12	77.0	42,000	42,000							12
15	74.5	42,000	42,000	77.0	42,000	42,000				15
20	70.0	42,000	42,000	73.0	42,000	42,000	75.5	35,900	35,900	20
25	65.0	42,000	42,000	69.0	41,700	41,700	72.0	31,500	31,500	25
30	60.0	29,700	34,600	65.0	29,900	34,800	68.5	28,100	28,100	30
35	54.5	22,200	26,500	60.5	22,500	26,700	64.5	22,600	25,400	35
40	49.0	17,200	21,100	55.5	17,400	21,300	60.5	17,600	21,500	40
45	42.5	13,700	17,100	50.5	13,900	17,300	56.5	14,000	17,500	45
50	35.5	11,000	14,100	45.5	11,300	14,300	52.0	11,400	14,500	50
55	26.5	8,900	11,700	39.5	9,200	12,000	47.5	9,300	12,200	55
60	13.0	7,100	9,700	33.0	7,500	10,100	43.0	7,700	10,300	60
65				25.0	6,100	8,400	37.5	6,300	8,700	65
70				12.5	4,800	7,000	31.0	5,100	7,300	70
75							23.5	4,100	6,200	75
80							11.5	3,200	5,200	80
Min.Boom Angle/Cap.	0	6,500	7,400	0	4,400	5,400	0	2,900	3,900	Min.Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
6,000# COUNTERWEIGHT

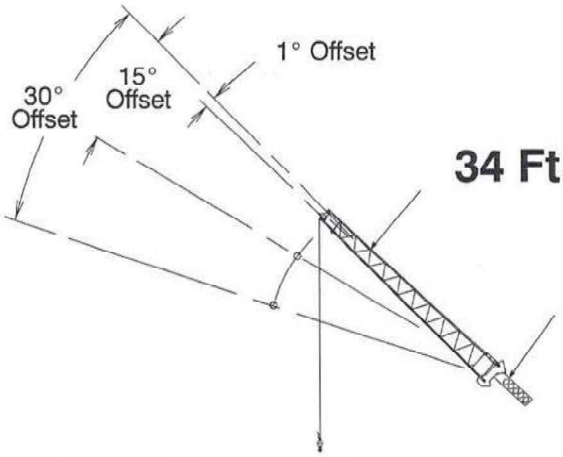
Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



95 Ft. To 110 Ft. Main Boom

Load Radius In Feet	95 Ft.			105 Ft.			110 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
20	77.5	31,800	31,800							20
25	74.5	28,300	28,300	76.0	25,700	25,700	77.0	22,600	22,600	25
30	71.0	25,300	25,300	73.5	23,100	23,100	74.5	22,100	22,100	30
35	68.0	22,700	22,800	70.5	20,900	20,900	71.5	20,000	20,000	35
40	64.5	17,700	20,800	67.5	17,800	19,000	69.0	17,800	18,300	40
45	61.0	14,100	17,600	64.5	14,200	17,400	66.0	14,200	16,700	45
50	57.0	11,500	14,600	61.0	11,600	14,600	63.0	11,700	14,700	50
55	53.5	9,500	12,300	58.0	9,500	12,400	59.5	9,600	12,400	55
60	49.5	7,800	10,400	54.5	7,900	10,500	56.5	7,900	10,500	60
65	45.0	6,400	8,800	51.0	6,500	8,900	53.0	6,600	9,000	65
70	40.5	5,300	7,500	47.0	5,400	7,600	49.5	5,400	7,700	70
75	35.5	4,300	6,400	43.0	4,400	6,500	46.0	4,500	6,500	75
80	29.5	3,500	5,400	38.5	3,600	5,500	42.0	3,600	5,600	80
85	22.5	2,700	4,500	34.0	2,900	4,700	38.0	2,900	4,700	85
Min. Boom Angle/ Cap	17.0			29.0			33.0			Min. Boom Angle/ Cap

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

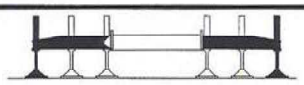


34 Ft. Offset Fly

85 Ft. Main Boom

BOOM MODE "B"
6,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



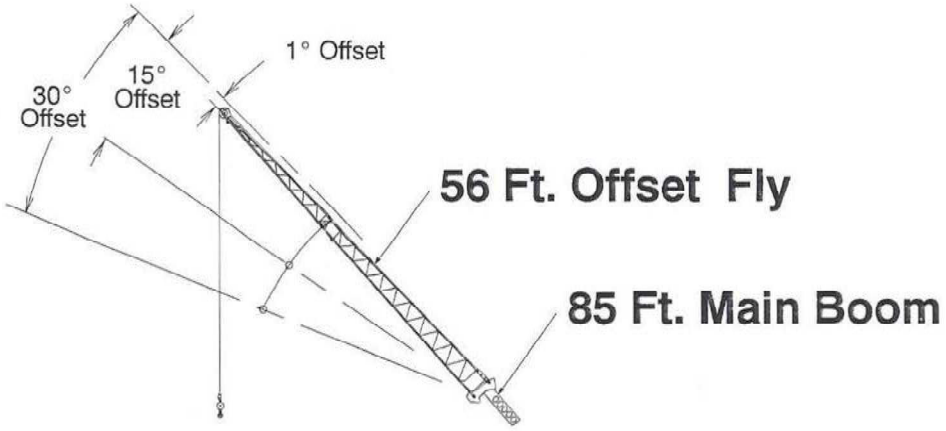
85 Ft. Main Boom + 34 Ft. Offset Fly

Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
25	77.5	18,600					25
30	75.0	17,000					30
35	73.0	15,600	76.5	12,000			35
40	70.5	14,500	74.0	11,400	77.5	9,400	40
45	68.0	13,600	71.5	10,800	75.0	9,100	45
50	65.0	12,700	69.0	10,400	72.5	8,800	50
55	62.5	10,900	66.0	9,900	69.5	8,400	55
60	59.5	9,100	63.5	9,500	67.0	8,100	60
65	56.5	7,700	60.5	8,400	64.0	7,800	65
70	53.5	6,600	57.5	7,200	61.0	7,500	70
75	50.0	5,600	54.0	6,100	57.5	6,600	75
80	47.0	4,700	50.5	5,200	54.0	5,600	80
85	43.0	4,000	47.0	4,400	50.0	4,700	85
90	39.5	3,400	43.0	3,700	46.0	4,000	90
95	35.5	2,800	39.0	3,100	41.5	3,300	95
100	31.0	2,300	34.5	2,500	36.5	2,700	100
105			29.0	2,000	30.5	2,100	105

⚠ WARNING

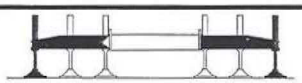
Do Not Lower 34 Ft. Offset Fly In Working Position Below 24.5° Main Boom Angle Unless Main Boom Length Is 74 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
6,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



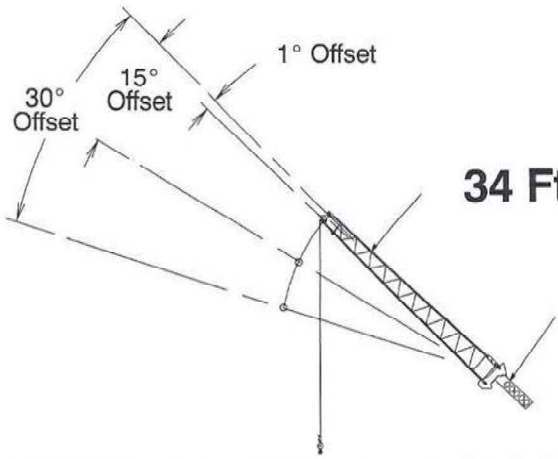
85 Ft. Main Boom + 56 Ft. Offset Fly

Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
35	76.5	11,100					35
40	74.5	10,500					40
45	72.5	9,600	77.5	7,100			45
50	70.0	8,800	75.5	6,700			50
55	68.0	8,100	73.0	6,300			55
60	66.0	7,600	71.0	5,900	76.0	4,800	60
65	63.5	7,000	68.5	5,600	74.0	4,600	65
70	61.5	6,600	66.5	5,300	71.5	4,500	70
75	59.0	6,200	64.0	5,100	69.0	4,300	75
80	56.5	5,400	61.5	4,800	66.5	4,100	80
85	53.5	4,600	59.0	4,600	64.0	4,000	85
90	51.0	4,000	56.5	4,400	61.0	3,900	90
95	48.0	3,400	53.5	3,900	58.5	3,800	95
100	45.0	2,900	50.5	3,400	55.5	3,700	100
105	42.0	2,400	47.5	2,900	52.0	3,300	105
110	38.5	2,000	44.0	2,400	48.5	2,700	110
115			40.5	2,000	44.0	2,300	115
120					39.5	1,800	120

⚠ WARNING

Do Not Lower 56 Ft. Offset Fly In Working Position Below 36° Main Boom Angle Unless Main Boom Length Is 66 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

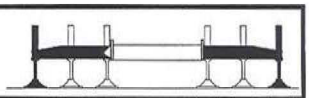


34 Ft. Offset Fly

110 Ft. Main Boom

BOOM MODE "B"
6,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



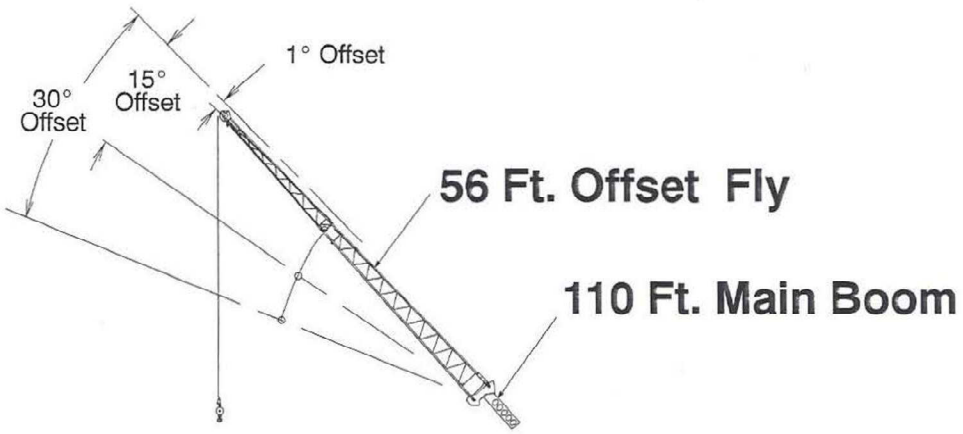
110 Ft. Main Boom + 34 Ft. Offset Fly

Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
35	76.5	10,500					35
40	74.5	10,500					40
45	72.5	10,500	76.0	9,800			45
50	70.5	9,800	74.0	9,000	77.0	8,300	50
55	68.5	8,900	71.5	8,200	74.5	7,700	55
60	66.5	8,200	69.5	7,600	72.5	7,100	60
65	64.0	7,400	67.5	7,000	70.5	6,600	65
70	61.5	6,200	65.0	6,500	68.0	6,200	70
75	59.0	5,300	62.5	5,900	65.5	5,800	75
80	56.5	4,400	60.0	5,000	63.0	5,400	80
85	54.0	3,700	57.5	4,200	60.5	4,600	85
90	51.5	3,100	54.5	3,500	57.5	3,900	90
95	48.5	2,500	52.0	2,900	54.5	3,200	95
100	46.0	2,000	49.0	2,400	51.5	2,700	100
105			46.0	1,900	48.5	2,100	105

⚠ WARNING

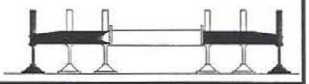
Do Not Lower 34 Ft. Offset Fly In Working Position Below 45° Main Boom Angle Unless Main Boom Length Is 74 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
6,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



110 Ft. Main Boom + 56 Ft. Offset Fly

Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
40	77.0	6,900					40
45	75.5	6,900					45
50	74.0	6,900					50
55	72.5	6,900	77.0	6,400			55
60	70.5	6,400	75.5	5,900			60
65	69.0	5,900	73.5	5,400	78.0*	5,000	65
70	67.0	5,400	71.5	5,000	76.0	4,600	70
75	65.0	5,000	69.5	4,600	74.0	4,300	75
80	63.0	4,600	68.0	4,300	72.0	4,000	80
85	61.0	4,200	66.0	4,000	70.0	3,800	85
90	59.0	3,500	63.5	3,700	68.0	3,500	90
95	56.5	3,000	61.5	3,500	66.0	3,300	95
100	54.5	2,500	59.5	3,100	63.5	3,100	100
105			57.0	2,500	61.5	2,900	105
110			54.5	2,100	59.0	2,600	110
115					56.0	2,100	115

⚠ WARNING

Do Not Lower 56 Ft. Offset Fly In Working Position Below 53° Main Boom Angle Unless Main Boom Length Is 66 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

*** This capacity based on maximum obtainable boom angle.**

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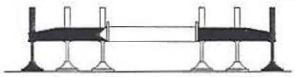
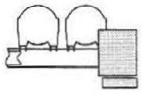
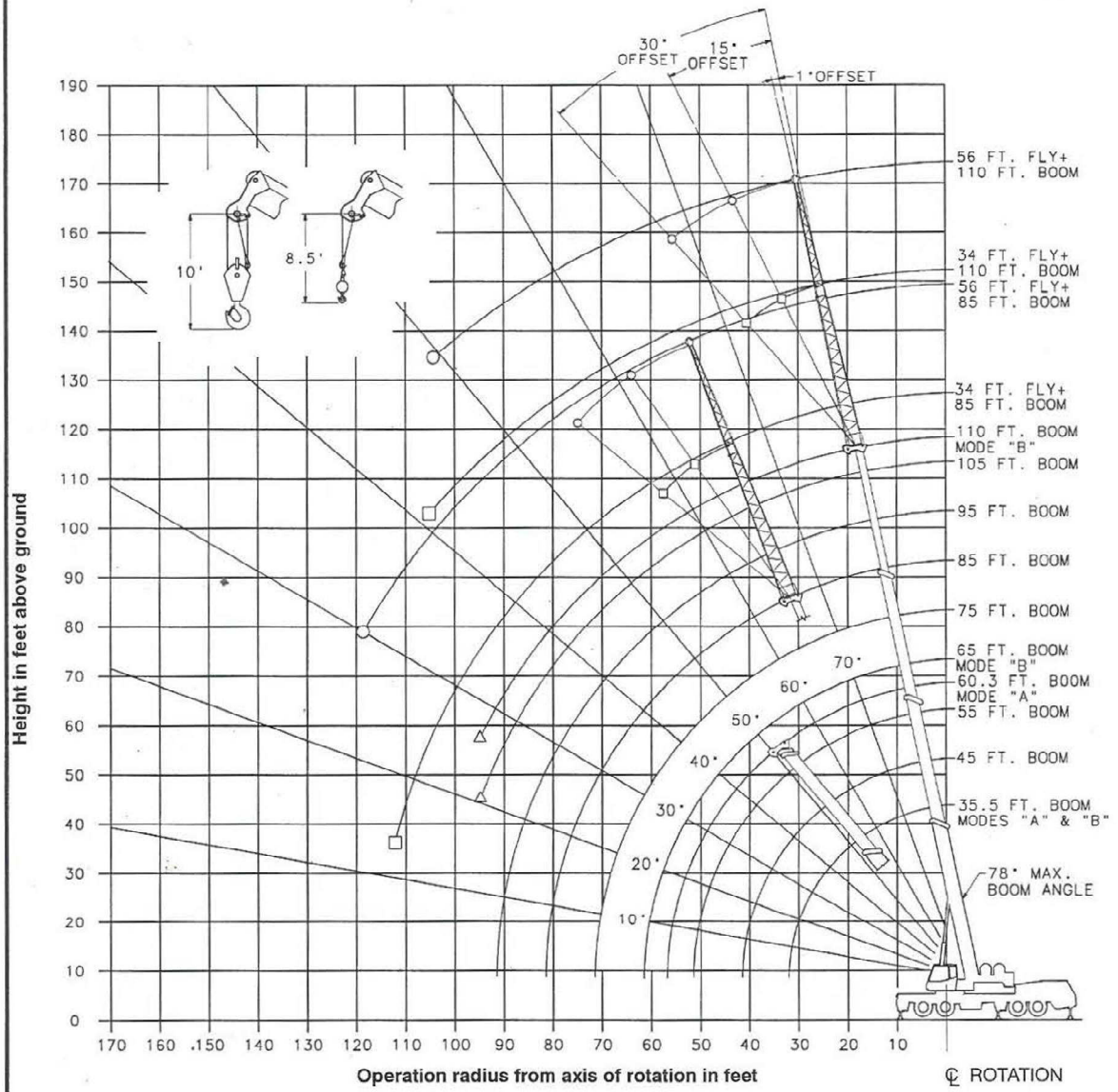
WORKING RANGE DIAGRAM

Working Range Diagram
On Fully Extended Outriggers



9,000# Counterweight



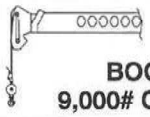


○ Denotes Main Boom + 56' Fly–Boom Mode "B"
□ Denotes Main Boom + 34' Fly–Boom Mode "B"
△ Denotes Main Boom–Boom Mode "B"

Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

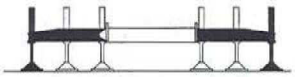
⚠ WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



BOOM MODE "A"
9,000# COUNTERWEIGHT

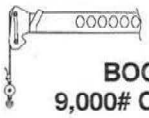
Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



35.5 Ft. To 45 Ft. Main Boom

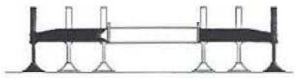
Load Radius In Feet	35.5 Ft.			45 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
10	68.5	107,000	107,000	73.5	87,100	87,100	10
12	65.0	95,100	95,100	71.0	87,100	87,100	12
15	59.5	81,100	81,200	66.5	80,700	80,700	15
20	49.5	62,800	62,800	59.5	62,400	62,400	20
25	37.5	44,300	48,400	51.5	43,500	48,100	25
30	20.0	30,500	35,100	42.5	30,200	35,000	30
35				32.0	22,200	26,400	35
40				15.5	16,700	20,400	40
Min. Boom Angle/Cap	0	19,900	19,900	0	13,200	13,200	Min. Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "A"
9,000# COUNTERWEIGHT

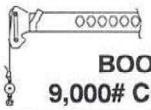
Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



55 Ft. To 60.3 Ft. Main Boom

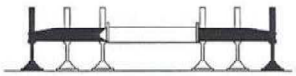
Load Radius In Feet	55 Ft.			60.3 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
10	77.0	79,500	79,500				10
12	75.0	72,200	72,200	76.5	61,300	61,300	12
15	71.5	63,300	63,300	73.5	57,600	57,600	15
20	66.0	52,100	52,100	68.5	47,100	47,100	20
25	60.0	42,900	44,000	63.0	39,500	39,500	25
30	53.5	29,700	34,500	57.5	29,500	33,900	30
35	46.5	21,900	26,100	51.5	21,700	25,900	35
40	38.5	16,600	20,400	45.0	16,500	20,300	40
45	29.0	12,800	16,100	37.5	12,800	16,100	45
50	14.0	9,800	12,900	28.5	9,900	12,900	50
55				15.0	7,600	10,300	55
Min. Boom Angle/Cap.	0	8,400	8,400	0	6,500	6,500	Min. Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
9,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



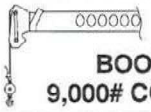
35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.			45 Ft.			55 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
10	68.5	106,900	107,000	73.0	42,000	42,000	76.5	42,000	42,000	10
12	65.0	95,100	95,100	70.5	42,000	42,000	74.5	42,000	42,000	12
15	59.5	81,100	81,200	66.5	42,000	42,000	71.5	42,000	42,000	15
20	49.5	62,800	62,800	59.5	42,000	42,000	66.0	42,000	42,000	20
25	37.5	44,300	48,400	51.5	42,000	42,000	59.5	42,000	42,000	25
30	20.0	30,500	35,100	42.5	31,800	36,400	53.5	32,300	36,900	30
35				32.0	23,700	27,700	46.5	24,300	28,300	35
40				15.5	18,000	21,700	38.5	18,900	22,500	40
45							29.0	14,900	18,200	45
50							14.0	11,900	14,900	50
Min. Boom Angle/Cap.	0	19,900	19,900	0	14,300	14,300	0	10,200	10,200	Min. Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom

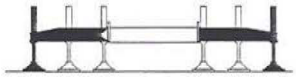
Load Radius In Feet	65 Ft.			75 Ft.			85 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
12	77.0	42,000	42,000							12
15	74.5	42,000	42,000	77.0	42,000	42,000				15
20	70.0	42,000	42,000	73.0	42,000	42,000	75.5	35,900	35,900	20
25	65.0	42,000	42,000	69.0	41,700	41,700	72.0	31,500	31,500	25
30	60.0	32,600	37,200	65.0	32,900	37,100	68.5	28,100	28,100	30
35	54.5	24,600	28,600	60.5	24,800	28,800	64.5	25,000	25,400	35
40	49.0	19,200	22,900	55.5	19,400	23,100	60.5	19,600	23,000	40
45	42.5	15,300	18,700	51.0	15,600	18,900	56.5	15,700	19,000	45
50	35.5	12,500	15,400	45.5	12,700	15,700	52.5	12,800	15,800	50
55	26.5	10,200	12,800	39.5	10,500	13,200	47.5	10,600	13,300	55
60	13.0	8,200	10,700	33.0	8,700	11,100	43.0	8,800	11,400	60
65				25.0	7,100	9,400	37.5	7,400	9,700	65
70				12.5	5,800	7,900	31.5	6,100	8,200	70
75							23.5	5,000	7,000	75
80							12.0	4,100	5,900	80
Min. Boom Angle/Cap.	0	7,400	7,400	0	5,400	5,400	0	3,800	3,900	Min. Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
9,000# COUNTERWEIGHT

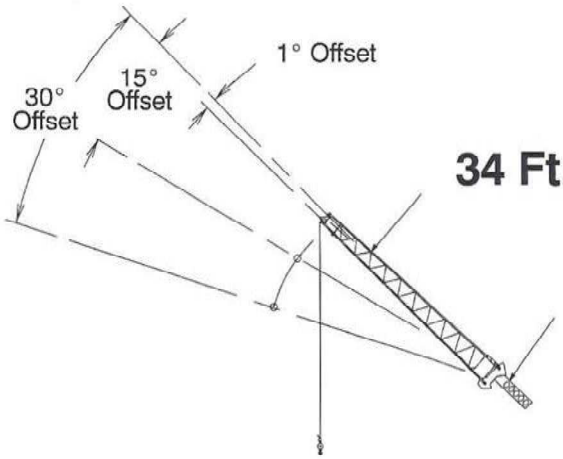
Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



95 Ft. To 110 Ft. Main Boom

Load Radius In Feet	95 Ft.			105 Ft.			110 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
20	77.5	31,800	31,800							20
25	74.5	28,300	28,300	76.0	25,700	25,700	77.0	22,600	22,600	25
30	71.0	25,300	25,300	73.5	23,100	23,100	74.5	22,100	22,100	30
35	68.0	22,800	22,800	70.5	20,900	20,900	71.5	20,000	20,000	35
40	64.5	19,700	20,800	67.5	19,000	19,000	69.0	18,300	18,300	40
45	61.0	15,800	19,000	64.5	15,900	17,400	66.0	15,900	16,700	45
50	57.5	12,900	15,900	61.5	13,000	15,900	63.0	13,000	15,200	50
55	53.5	10,800	13,400	58.0	10,900	13,500	60.0	10,900	13,500	55
60	49.5	9,000	11,500	54.5	9,100	11,600	56.5	9,100	11,600	60
65	45.5	7,500	9,800	51.0	7,600	9,900	53.5	7,600	9,900	65
70	40.5	6,300	8,400	47.0	6,400	8,500	50.0	6,400	8,600	70
75	35.5	5,200	7,200	43.0	5,300	7,300	46.0	5,400	7,400	75
80	29.5	4,300	6,200	39.0	4,400	6,300	42.5	4,500	6,400	80
85	22.5	3,500	5,300	34.0	3,700	5,400	38.0	3,700	5,500	85
90	11.5	2,800	4,400	28.5	3,000	4,600	33.5	3,000	4,700	90
95				21.5	2,300	3,900	28.0	2,400	4,000	95
Min. Boom Angle/ Cap	0	2,500	2,700	20.5			26.5			Min. Boom Angle/ Cap

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

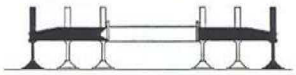


34 Ft. Offset Fly

85 Ft. Main Boom

BOOM MODE "B"
9,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



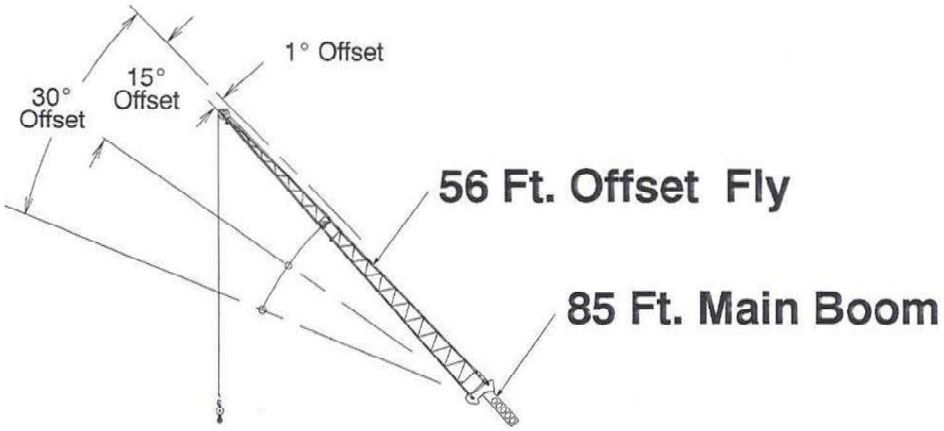
85 Ft. Main Boom + 34 Ft. Offset Fly

Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
25	77.5	18,600					25
30	75.0	17,000					30
35	73.0	15,600	76.5	12,000			35
40	70.5	14,500	74.0	11,400	77.5	9,400	40
45	68.0	13,600	71.5	10,800	75.0	9,100	45
50	65.0	12,700	69.0	10,400	72.5	8,800	50
55	62.5	11,900	66.0	9,900	69.5	8,400	55
60	59.5	10,300	63.5	9,500	67.0	8,100	60
65	56.5	8,800	60.5	9,100	64.0	7,800	65
70	53.5	7,600	57.5	8,100	61.0	7,500	70
75	50.5	6,500	54.5	7,000	57.5	7,300	75
80	47.0	5,600	51.0	6,000	54.0	6,400	80
85	43.5	4,800	47.5	5,200	50.5	5,500	85
90	39.5	4,100	43.5	4,400	46.5	4,700	90
95	35.5	3,500	39.0	3,800	42.0	4,000	95
100	31.0	2,900	34.5	3,200	37.0	3,400	100
105	25.5	2,500	29.0	2,600	30.5	2,700	105
110	19.0	2,000	22.0	2,100			110

⚠ WARNING

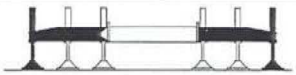
Do Not Lower 34 Ft. Offset Fly In Working Position Below 13.5° Main Boom Angle Unless Main Boom Length Is 82 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
9,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



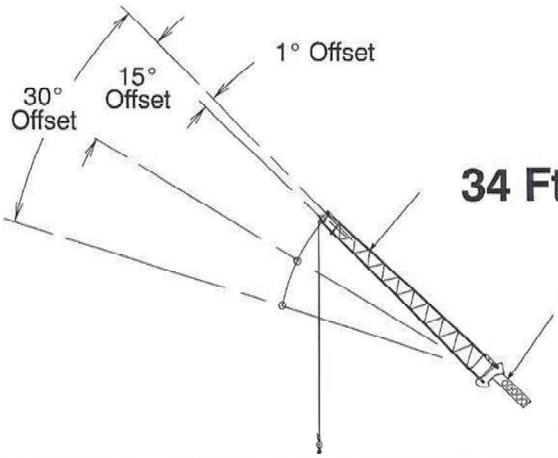
85 Ft. Main Boom + 56 Ft. Offset Fly

Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
35	76.5	11,100					35
40	74.5	10,500					40
45	72.5	9,600	77.5	7,100			45
50	70.0	8,800	75.5	6,700			50
55	68.0	8,100	73.0	6,300			55
60	66.0	7,600	71.0	5,900	76.0	4,800	60
65	63.5	7,000	68.5	5,600	74.0	4,600	65
70	61.5	6,600	66.5	5,300	71.5	4,500	70
75	59.0	6,200	64.0	5,100	69.0	4,300	75
80	56.5	5,800	61.5	4,800	66.5	4,100	80
85	54.0	5,400	59.0	4,600	64.0	4,000	85
90	51.0	4,700	56.5	4,400	61.0	3,900	90
95	48.5	4,100	54.0	4,300	58.5	3,800	95
100	45.5	3,500	51.0	4,000	55.5	3,700	100
105	42.5	3,000	47.5	3,500	52.0	3,600	105
110	39.0	2,600	44.5	3,000	48.5	3,300	110
115	35.5	2,200	40.5	2,500	44.5	2,800	115
120	31.5	1,800	36.5	2,100	40.0	2,300	120
125			32.0	1,700	34.5	1,900	125

⚠ WARNING

Do Not Lower 56 Ft. Offset Fly In Working Position Below 30° Main Boom Angle Unless Main Boom Length Is 72 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

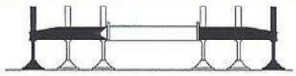


34 Ft. Offset Fly

110 Ft. Main Boom

BOOM MODE "B"
9,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



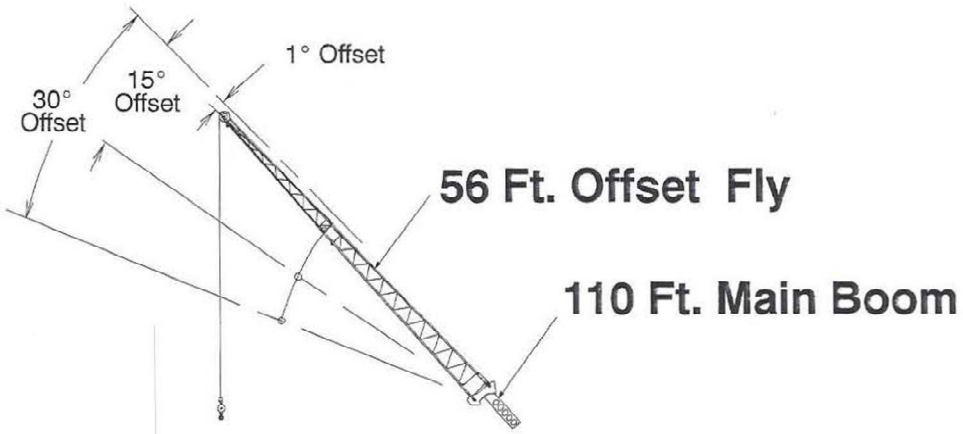
110 Ft. Main Boom + 34 Ft. Offset Fly

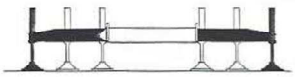
Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
35	76.5	10,500					35
40	74.5	10,500					40
45	72.5	10,500	76.0	9,800			45
50	70.5	9,800	74.0	9,000	77.0	8,300	50
55	68.5	8,900	71.5	8,200	74.5	7,700	55
60	66.5	8,200	69.5	7,600	72.5	7,100	60
65	64.0	7,500	67.5	7,000	70.5	6,600	65
70	62.0	6,900	65.0	6,500	68.0	6,200	70
75	59.5	6,200	62.5	6,100	65.5	5,800	75
80	57.0	5,300	60.5	5,700	63.0	5,400	80
85	54.5	4,500	57.5	5,000	60.5	5,100	85
90	51.5	3,800	55.0	4,200	58.0	4,600	90
95	49.0	3,200	52.0	3,600	55.0	3,900	95
100	46.0	2,700	49.5	3,000	52.0	3,300	100
105	43.0	2,200	46.5	2,500	49.0	2,800	105
110			43.0	2,000	45.5	2,200	110

⚠ WARNING

Do Not Lower 34 Ft. Offset Fly In Working Position Below 41° Main Boom Angle Unless Main Boom Length Is 82 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B" 9,000# COUNTERWEIGHT	Rated Lifting Capacities In Pounds On Fully Extended Outriggers See Set Up Note 2.	

110 Ft. Main Boom + 56 Ft. Offset Fly

Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
40	77.0	6,900					40
45	75.5	6,900					45
50	74.0	6,900					50
55	72.5	6,900	77.0	6,400			55
60	70.5	6,400	75.5	5,900			60
65	69.0	5,900	73.5	5,400	78.0*	5,000	65
70	67.0	5,400	71.5	5,000	76.0	4,600	70
75	65.0	5,000	69.5	4,600	74.0	4,300	75
80	63.0	4,600	68.0	4,300	72.0	4,000	80
85	61.0	4,300	66.0	4,000	70.0	3,800	85
90	59.0	4,000	63.5	3,700	68.0	3,500	90
95	57.0	3,600	61.5	3,500	66.0	3,300	95
100	55.0	3,100	59.5	3,300	63.5	3,100	100
105	52.5	2,600	57.5	3,100	61.5	2,900	105
110	50.0	2,200	55.0	2,700	59.0	2,800	110
115			52.5	2,200	56.5	2,600	115
120					53.5	2,200	120

⚠ WARNING

Do Not Lower 56 Ft. Offset Fly In Working Position Below 49.5° Main Boom Angle Unless Main Boom Length Is 72 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

*** This capacity based on maximum obtainable boom angle.**

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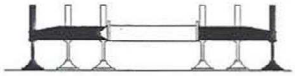
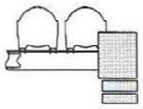
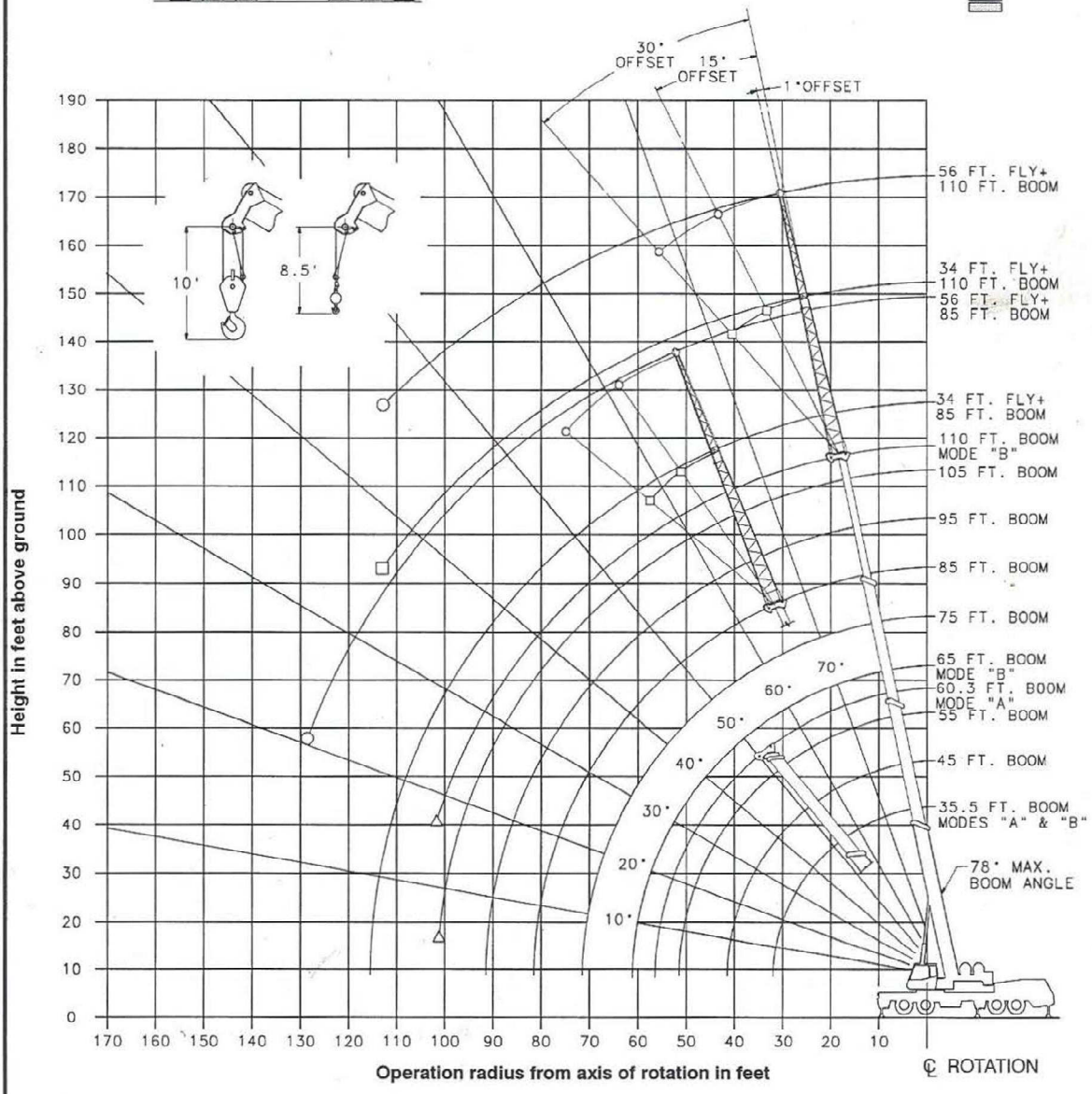
WORKING RANGE DIAGRAM

Working Range Diagram
On Fully Extended Outriggers



12,000# Counterweight



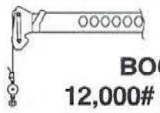


○ **Denotes Main Boom + 56' Fly–Boom Mode "B"**
□ **Denotes Main Boom + 34' Fly–Boom Mode "B"**
△ **Denotes Main Boom – Boom Mode "B"**

Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

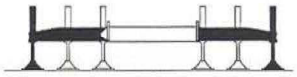
⚠ WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



BOOM MODE "A"
12,000# COUNTERWEIGHT

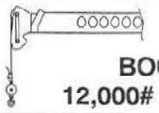
Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



35.5 Ft. To 45 Ft. Main Boom

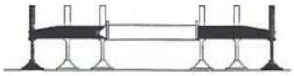
Load Radius In Feet	35.5 Ft.			45 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
9	70.5	120,000	120,000				9
10	68.5	108,900	108,900	73.5	87,100	87,100	10
12	65.0	96,900	96,900	71.0	87,100	87,100	12
15	59.5	82,700	82,700	66.5	82,200	82,200	15
20	49.5	64,500	64,500	59.5	64,100	64,100	20
25	37.5	48,300	49,800	51.5	47,500	49,500	25
30	20.0	33,500	37,700	42.5	33,200	37,600	30
35				32.0	24,600	28,500	35
40				15.5	18,700	22,200	40
Min. Boom Angle/Cap.	0	19,900	19,900	0	13,200	13,200	Min. Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "A"
12,000# COUNTERWEIGHT

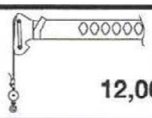
Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



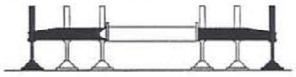
55 Ft. To 60.3 Ft. Main Boom

Load Radius In Feet	55 Ft.			60.3 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
10	77.0	79,500	79,500				10
12	75.0	72,200	72,200	76.5	61,300	61,300	12
15	71.5	63,300	63,300	73.5	57,600	57,600	15
20	66.0	52,100	52,100	68.5	47,100	47,100	20
25	60.0	44,000	44,000	63.0	39,500	39,500	25
30	53.5	32,700	37,100	57.5	32,500	33,900	30
35	46.5	24,200	28,200	51.5	24,100	28,000	35
40	38.5	18,600	22,200	45.0	18,400	22,000	40
45	29.0	14,500	17,700	37.5	14,400	17,600	45
50	14.5	11,300	14,200	28.5	11,400	14,200	50
55				15.0	8,900	11,500	55
Min. Boom Angle/Cap.	0	8,400	8,400	0	6,500	6,500	Min. Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



Rated Lifting Capacities In Pounds
BOOM MODE "B" On Fully Extended Outriggers
12,000# COUNTERWEIGHT See Set Up Note 2.



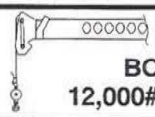
35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.			45 Ft.			55 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
9	70.5	120,000	120,000							9
10	68.5	108,900	108,900	73.0	42,000	42,000	76.5	42,000	42,000	10
12	65.0	96,900	96,900	70.5	42,000	42,000	74.5	42,000	42,000	12
15	59.5	82,700	82,700	66.5	42,000	42,000	71.5	42,000	42,000	15
20	49.5	64,500	64,500	59.5	42,000	42,000	66.0	42,000	42,000	20
25	37.5	48,300	49,800	51.5	42,000	42,000	60.0	42,000	42,000	25
30	20.0	33,500	37,700	42.5	34,700	39,000	53.5	35,300	39,500	30
35				32.0	26,000	29,800	46.5	26,600	30,500	35
40				15.5	20,000	23,500	38.5	20,800	24,300	40
45							29.0	16,600	19,700	45
50							14.0	13,400	16,200	50
Min. Boom Angle/Cap.	0	19,900	19,900	0	14,300	14,300	0	10,200	10,200	Min. Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom

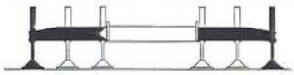
Load Radius In Feet	65 Ft.			75 Ft.			85 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
9										9
10										10
12	77.0	42,000	42,000							12
15	74.5	42,000	42,000	77.0	42,000	42,000				15
20	70.0	42,000	42,000	73.0	42,000	42,000	75.5	35,900	35,900	20
25	65.5	42,000	42,000	69.0	41,700	41,700	72.0	31,500	31,500	25
30	60.0	35,600	39,800	65.0	35,800	37,100	68.5	28,100	28,100	30
35	54.5	26,900	30,800	60.5	27,100	30,900	64.5	25,400	25,400	35
40	49.0	21,200	24,700	56.0	21,400	24,900	61.0	21,500	23,000	40
45	42.5	17,000	20,200	51.0	17,200	20,400	56.5	17,400	20,500	45
50	35.5	13,900	16,800	45.5	14,100	17,000	52.5	14,300	17,200	50
55	26.5	11,500	14,000	40.0	11,800	14,400	48.0	12,000	14,500	55
60	13.0	9,400	11,800	33.0	9,800	12,200	43.0	10,000	12,400	60
65				25.0	8,200	10,400	37.5	8,400	10,700	65
70				12.5	6,800	8,800	31.5	7,100	9,100	70
75							23.5	5,900	7,900	75
80							12.0	4,900	6,700	80
Min. Boom Angle/Cap	0	7,400	7,400	0	5,400	5,400	0	3,900	3,900	Min. Boom Angle/Cap

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
12,000# COUNTERWEIGHT

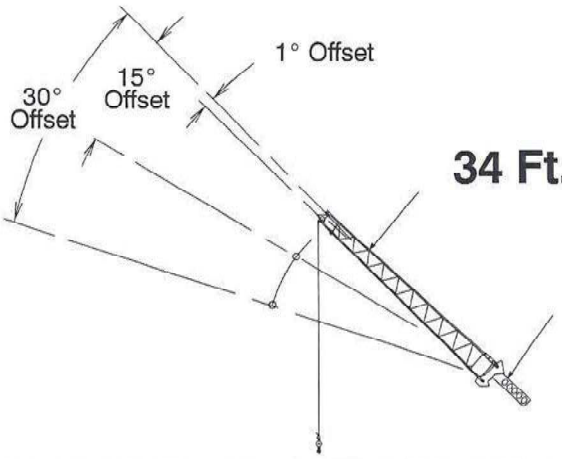
Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



95 Ft. To 110 Ft. Main Boom

Load Radius In Feet	95 Ft.			105 Ft.			110 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Rear	Loaded Boom Angle (Deg)	360°	Over Rear	Loaded Boom Angle (Deg.)	360°	Over Rear	
20	77.5	31,800	31,800							20
25	74.5	28,300	28,300	76.0	25,700	25,700	77.0	22,600	22,600	25
30	71.0	25,300	25,300	73.5	23,100	23,100	74.5	22,100	22,100	30
35	68.0	22,800	22,800	70.5	20,900	20,900	71.5	20,000	20,000	35
40	64.5	20,800	20,800	67.5	19,000	19,000	69.0	18,300	18,300	40
45	61.0	17,500	19,000	64.5	17,400	17,400	66.0	16,700	16,700	45
50	57.5	14,400	17,300	61.5	14,500	15,900	63.0	14,500	15,200	50
55	53.5	12,100	14,600	58.0	12,200	14,700	60.0	12,200	13,900	55
60	49.5	10,100	12,600	54.5	10,200	12,600	57.0	10,300	12,400	60
65	45.5	8,600	10,800	51.0	8,700	10,900	53.5	8,700	10,900	65
70	41.0	7,200	9,300	47.5	7,300	9,400	50.0	7,400	9,500	70
75	35.5	6,100	8,100	43.5	6,200	8,200	46.5	6,300	8,200	75
80	30.0	5,100	6,900	39.0	5,300	7,100	42.5	5,300	7,100	80
85	22.5	4,300	6,000	34.0	4,400	6,100	38.0	4,500	6,200	85
90	11.5	3,500	5,100	28.5	3,700	5,300	33.5	3,800	5,400	90
95				21.5	3,000	4,500	28.0	3,100	4,600	95
100				11.0	2,400	3,900	21.5	2,500	3,900	100
Min. Boom Angle/ Cap.	0	2,700	2,700	4.5			17.0			Min. Boom Angle/ Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

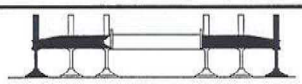


34 Ft. Offset Fly

85 Ft. Main Boom

BOOM MODE "B"
12,000# COUNTERWEIGHT

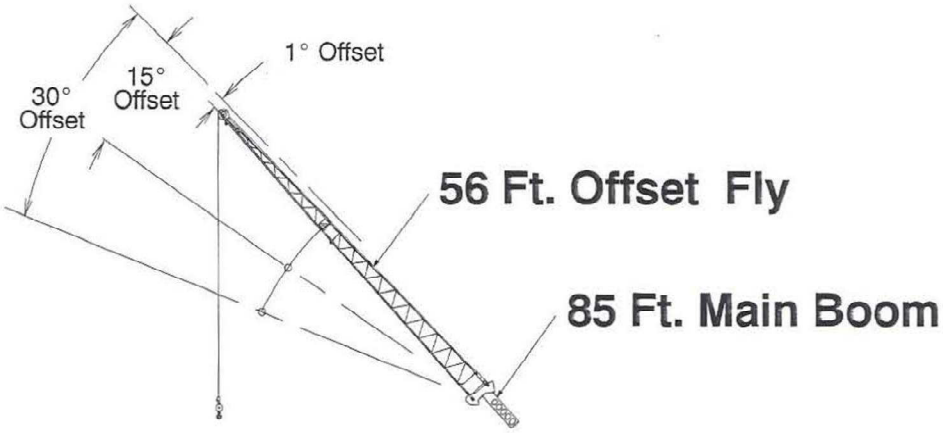
Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



85 Ft. Main Boom + 34 Ft. Offset Fly

Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
25	77.5	18,600					25
30	75.0	17,000					30
35	73.0	15,600	76.5	12,000			35
40	70.5	14,500	74.0	11,400	77.5	9,400	40
45	68.0	13,600	71.5	10,800	75.0	9,100	45
50	65.0	12,700	69.0	10,400	72.5	8,800	50
55	62.5	11,900	66.0	9,900	69.5	8,400	55
60	60.0	11,100	63.5	9,500	67.0	8,100	60
65	57.0	9,900	60.5	9,100	64.0	7,800	65
70	54.0	8,500	57.5	8,800	61.0	7,500	70
75	50.5	7,400	54.5	7,900	57.5	7,300	75
80	47.0	6,400	51.0	6,900	54.5	7,100	80
85	43.5	5,600	47.5	6,000	50.5	6,300	85
90	40.0	4,800	43.5	5,200	46.5	5,500	90
95	35.5	4,200	39.5	4,500	42.0	4,700	95
100	31.0	3,600	34.5	3,800	37.0	4,000	100
105	26.0	3,100	29.5	3,300	31.0	3,400	105
110	19.0	2,600	22.5	2,700			110
Min. Boom Angle/Cap.	0	1,700	0	1,800	0	1,800	Min. Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
12,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.

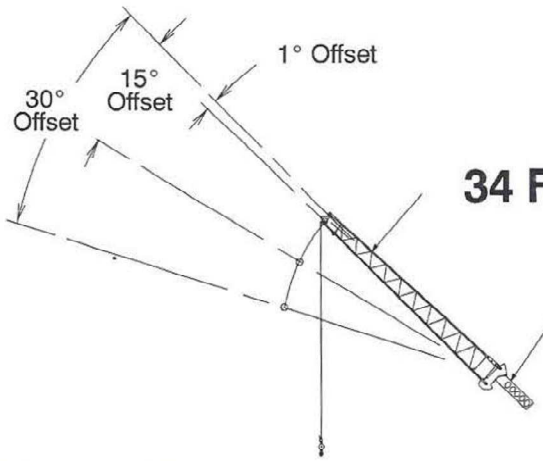
85 Ft. Main Boom + 56 Ft. Offset Fly

Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
35	76.5	11,100					35
40	74.5	10,500					40
45	72.5	9,600	77.5	7,100			45
50	70.0	8,800	75.5	6,700			50
55	68.0	8,100	73.0	6,300			55
60	66.0	7,600	71.0	5,900	76.0	4,800	60
65	63.5	7,000	68.5	5,600	74.0	4,600	65
70	61.5	6,600	66.5	5,300	71.5	4,500	70
75	59.0	6,200	64.0	5,100	69.0	4,300	75
80	56.5	5,800	61.5	4,800	66.5	4,100	80
85	54.0	5,500	59.0	4,600	64.0	4,000	85
90	51.5	5,200	56.5	4,400	61.0	3,900	90
95	48.5	4,800	54.0	4,300	58.5	3,800	95
100	45.5	4,200	51.0	4,100	55.5	3,700	100
105	42.5	3,700	48.0	3,900	52.0	3,600	105
110	39.0	3,200	44.5	3,600	48.5	3,500	110
115	35.5	2,800	41.0	3,100	45.0	3,400	115
120	31.5	2,400	36.5	2,700	40.0	2,900	120
125	27.0	2,000	32.0	2,200	34.5	2,400	125
130	22.0	1,700	26.5	1,900			130

⚠ WARNING

Do Not Lower 56 Ft. Offset Fly In Working Position Below 20.5° Main Boom Angle Unless Main Boom Length Is 80 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

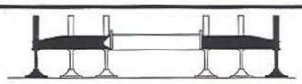


34 Ft. Offset Fly

110 Ft. Main Boom

BOOM MODE "B"
12,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



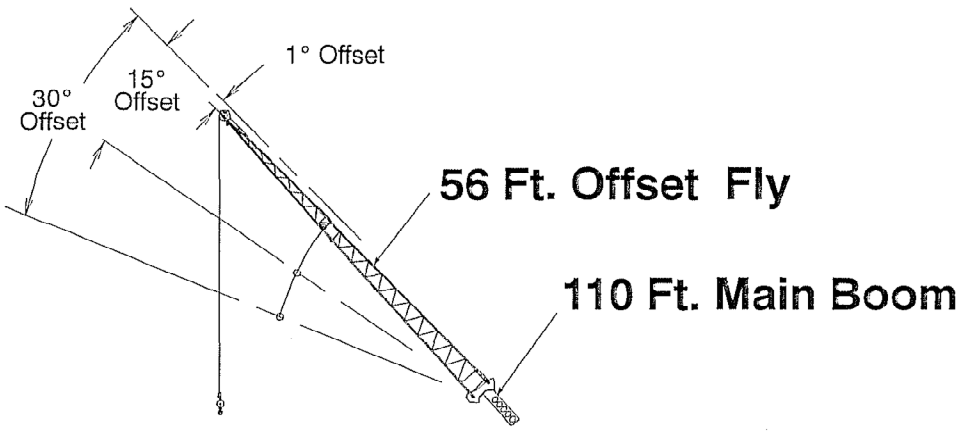
110 Ft. Main Boom + 34 Ft. Offset Fly

Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
35	76.5	10,500					35
40	74.5	10,500					40
45	72.5	10,500	76.0	9,800			45
50	70.5	9,800	74.0	9,000	77.0	8,300	50
55	68.5	8,900	71.5	8,200	74.5	7,700	55
60	66.5	8,200	69.5	7,600	72.5	7,100	60
65	64.0	7,500	67.5	7,000	70.5	6,600	65
70	62.0	6,900	65.0	6,500	68.0	6,200	70
75	59.5	6,400	62.5	6,100	65.5	5,800	75
80	57.0	6,000	60.5	5,700	63.0	5,400	80
85	54.5	5,300	58.0	5,300	60.5	5,100	85
90	52.0	4,500	55.5	5,000	58.0	4,800	90
95	49.0	3,900	52.5	4,300	55.5	4,600	95
100	46.5	3,300	49.5	3,700	52.5	4,000	100
105	43.5	2,800	46.5	3,100	49.0	3,400	105
110	40.0	2,300	43.5	2,600	45.5	2,800	110
115			40.0	2,200	42.0	2,300	115
120					38.0	1,900	120

⚠ WARNING

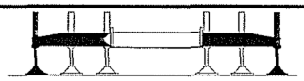
Do Not Lower 34 Ft. Offset Fly In Working Position Below 36° Main Boom Angle Unless Main Boom Length Is 88 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
12,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Extended Outriggers
See Set Up Note 2.



110 Ft. Main Boom + 56 Ft. Offset Fly

Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
40	77.0	6,900					40
45	75.5	6,900					45
50	74.0	6,900					50
55	72.5	6,900	77.0	6,400			55
60	70.5	6,400	75.5	5,900			60
65	69.0	5,900	73.5	5,400	78.0*	5,000	65
70	67.0	5,400	71.5	5,000	76.0	4,600	70
75	65.0	5,000	69.5	4,600	74.0	4,300	75
80	63.0	4,600	68.0	4,300	72.0	4,000	80
85	61.0	4,300	66.0	4,000	70.0	3,800	85
90	59.0	4,000	63.5	3,700	68.0	3,500	90
95	57.0	3,700	61.5	3,500	66.0	3,300	95
100	55.0	3,500	59.5	3,300	63.5	3,100	100
105	53.0	3,200	57.5	3,100	61.5	2,900	105
110	50.5	2,800	55.0	2,900	59.0	2,800	110
115	48.0	2,300	52.5	2,700	56.5	2,600	115
120			50.0	2,400	54.0	2,300	120
125			47.5	2,000	51.0	2,100	125
130					48.0	1,900	130

⚠ WARNING

Do Not Lower 56 Ft. Offset Fly In Working Position Below 45.5° Main Boom Angle Unless Main Boom Length Is 80 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

*** This capacity based on maximum obtainable boom angle.**

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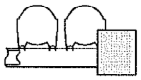
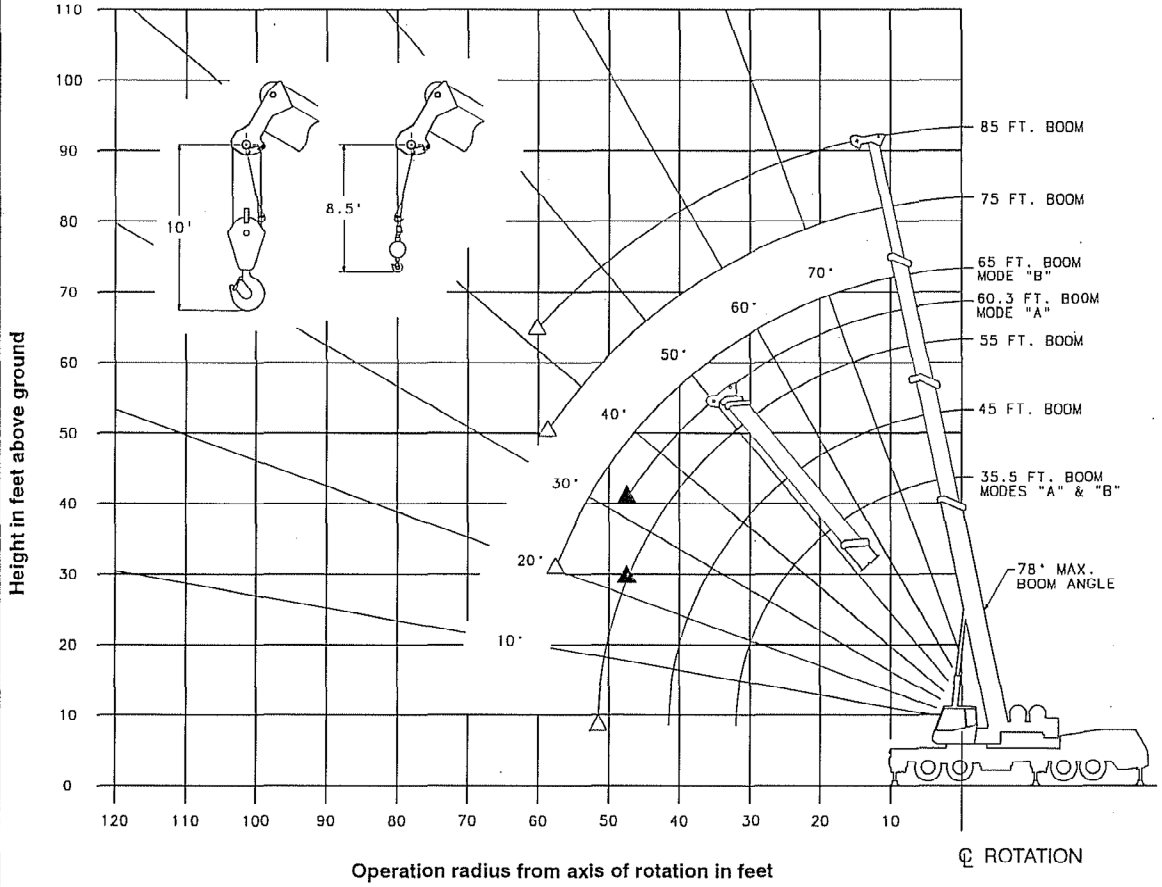
WORKING RANGE DIAGRAM

Working Range Diagram On Intermediate Extended Outriggers

6,000# Counterweight





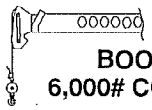
Crane Configurations Prohibited:
Boom Lengths Greater Than 85 Ft
34 Ft Offset Fly
56 Ft Offset Fly

▲ Denotes Main Boom– Boom Mode "A"
△ Denotes Main Boom– Boom Mode "B"

Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

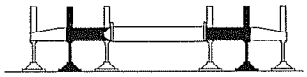
⚠ WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



BOOM MODE "A"
6,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Intermediate Extended Outriggers
See Set Up Note 2.



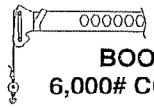
35.5 Ft. To 45 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	111,100	73.5	87,100	10
12	65.0	96,400	71.0	87,100	12
15	59.5	56,800	66.5	55,600	15
20	49.5	31,500	59.0	30,700	20
25	37.5	19,900	51.5	19,600	25
30	20.0	13,200	42.5	13,100	30
35			32.0	9,000	35
40			15.5	5,900	40
45					45
Min. Boom Angle/Cap.	0	11,000	0	5,000	Min. Boom Angle/Cap.

55 Ft. To 60.3 Ft. Main Boom

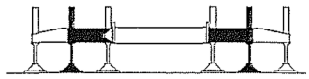
Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	77.0	79,500			10
12	75.0	72,200	76.5	61,300	12
15	71.5	54,800	73.5	54,500	15
20	65.5	30,100	68.0	29,800	20
25	59.5	19,100	62.5	18,900	25
30	53.0	12,900	57.0	12,700	30
35	46.0	8,800	51.0	8,700	35
40	38.5	5,900	44.5	5,800	40
45	29.0	3,700	37.0	3,700	45
Min. Boom Angle/Cap.	22.5		33.0		Min. Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
6,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Intermediate Extended Outriggers
See Set Up Note 2.



35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	111,100	73.0	42,000	76.5	42,000	10
12	65.0	96,400	70.5	42,000	74.5	42,000	12
15	59.5	56,800	66.5	42,000	71.0	42,000	15
20	49.5	31,500	59.0	32,300	65.5	32,800	20
25	37.5	19,900	51.5	21,000	59.5	21,500	25
30	20.0	13,200	42.5	14,500	53.0	15,100	30
35			32.0	10,200	46.0	11,000	35
40			15.5	7,100	38.5	8,000	40
45					28.5	5,700	45
50					14.0	3,900	50
55							55
Min. Boom Angle/Cap.	0	11,000	0	6,200	0	3,100	Min. Boom Angle/Cap

65 Ft. To 85 Ft. Main Boom

Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
12	77.0	42,000					12
15	74.5	42,000	77.0	42,000			15
20	69.5	33,100	73.0	33,300	75.5	33,500	20
25	64.5	21,800	68.5	22,000	71.5	22,200	25
30	59.5	15,400	64.5	15,600	68.0	15,700	30
35	54.5	11,300	60.0	11,500	64.0	11,700	35
40	48.5	8,400	55.5	8,600	60.0	8,800	40
45	42.5	6,200	50.5	6,500	56.0	6,700	45
50	35.0	4,500	45.0	4,800	52.0	5,000	50
55	26.5	3,100	39.5	3,500	47.5	3,700	55
60					42.5	2,600	60
Min. Boom Angle/Cap	21.0		34.0		41.5		Min. Boom Angle/Cap

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

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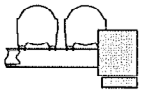
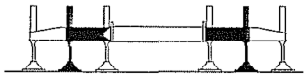
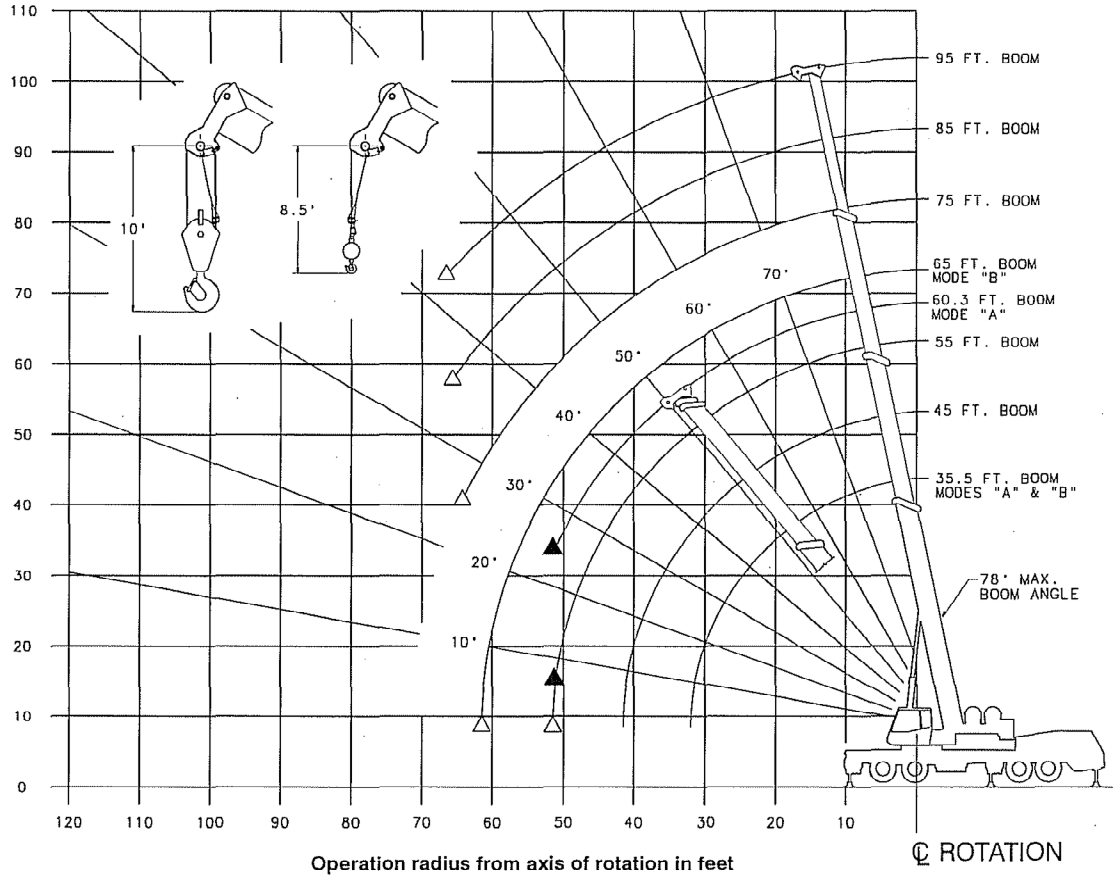
WORKING RANGE DIAGRAM

9,000# Counterweight



Working Range Diagram On Intermediate Extended Outriggers





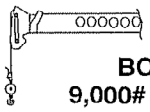
Crane Configurations Prohibited:
Boom Lengths Greater Than 95 Ft
34 Ft Offset Fly
56 Ft Offset Fly

▲ Denotes Main Boom– Boom Mode "A"
△ Denotes Main Boom– Boom Mode "B"

Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

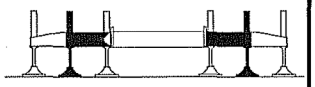
⚠ WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



BOOM MODE "A"
9,000# COUNTERWEIGHT

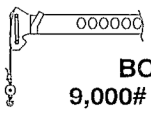
Rated Lifting Capacities In Pounds
On Intermediate Outriggers
See Set Up Note 2.



35.5 Ft. To 45 Ft. Main Boom

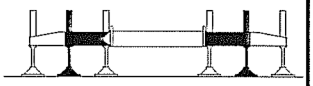
Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	112,800	73.5	87,100	10
12	65.0	99,600	71.0	87,100	12
15	59.5	62,800	66.5	61,600	15
20	49.5	35,100	59.5	34,300	20
25	37.5	22,600	51.5	22,200	25
30	20.0	15,300	42.5	15,200	30
35			32.0	10,700	35
40			15.5	7,300	40
Min.Boom Angle/Cap.	0	12,900	0	6,400	Min.Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "A"
9,000# COUNTERWEIGHT

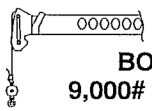
Rated Lifting Capacities In Pounds
On Intermediate Outriggers
See Set Up Note 2.



55 Ft. To 60.3 Ft. Main Boom

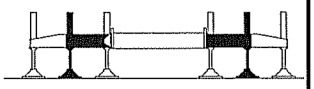
Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	77.0	79,500			10
12	75.0	72,200	76.5	61,300	12
15	71.5	60,800	73.5	57,600	15
20	65.5	33,700	68.0	33,500	20
25	59.5	21,700	62.5	21,500	25
30	53.0	14,900	57.0	14,700	30
35	46.5	10,500	51.0	10,400	35
40	38.5	7,300	44.5	7,300	40
45	29.0	5,000	37.0	4,900	45
50	14.0	3,100	28.0	3,100	50
Min.Boom Angle/Cap.	7.0		25.0		Min.Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
9,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Intermediate Outriggers
See Set Up Note 2.



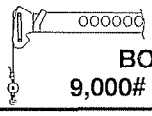
35.5 Ft. To 45 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	112,800	73.0	42,000	10
12	65.0	99,600	70.5	42,000	12
15	59.5	62,800	66.5	42,000	15
20	49.5	35,100	59.0	36,000	20
25	37.5	22,600	51.5	23,700	25
30	20.0	15,300	42.5	16,500	30
35			32.0	11,900	35
40			15.5	8,600	40
Min.Boom Angle/Cap.	0	12,900	0	7,600	Min.Boom Angle/Cap.

55 Ft. To 65 Ft. Main Boom

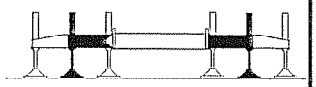
Load Radius In Feet	55 Ft.		65 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	76.5	42,000			10
12	74.5	42,000	77.0	42,000	12
15	71.5	42,000	74.5	42,000	15
20	65.5	36,500	69.5	36,800	20
25	59.5	24,200	65.0	24,500	25
30	53.0	17,200	59.5	17,500	30
35	46.0	12,600	54.5	13,000	35
40	38.5	9,400	48.5	9,800	40
45	28.5	7,000	42.5	7,400	45
50	14.0	5,000	35.0	5,600	50
55			26.5	4,100	55
60			13.0	2,800	60
Min.Boom Angle/Cap.	0	4,400	0	2,400	Min.Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
9,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Intermediate Outriggers
See Set Up Note 2.



75 Ft. To 95 Ft. Main Boom

Load Radius In Feet	75 Ft.		85 Ft.		95 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
15	77.0	42,000					15
20	73.0	37,000	75.5	35,900	77.5	31,800	20
25	68.5	24,700	71.5	24,800	74.0	24,900	25
30	64.5	17,700	68.0	17,800	70.5	17,900	30
35	60.0	13,100	64.0	13,300	67.5	13,400	35
40	55.5	10,100	60.0	10,200	64.0	10,300	40
45	50.5	7,800	56.0	7,900	60.5	8,000	45
50	45.0	5,900	52.0	6,100	57.0	6,200	50
55	39.5	4,400	47.5	4,700	53.0	4,800	55
60	33.0	3,200	42.5	3,500	49.0	3,600	60
65			37.0	2,500	45.0	2,700	65
Min. Boom Angle/Cap.	25.5		35.5		42.5		Min. Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

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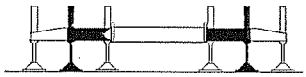
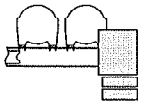
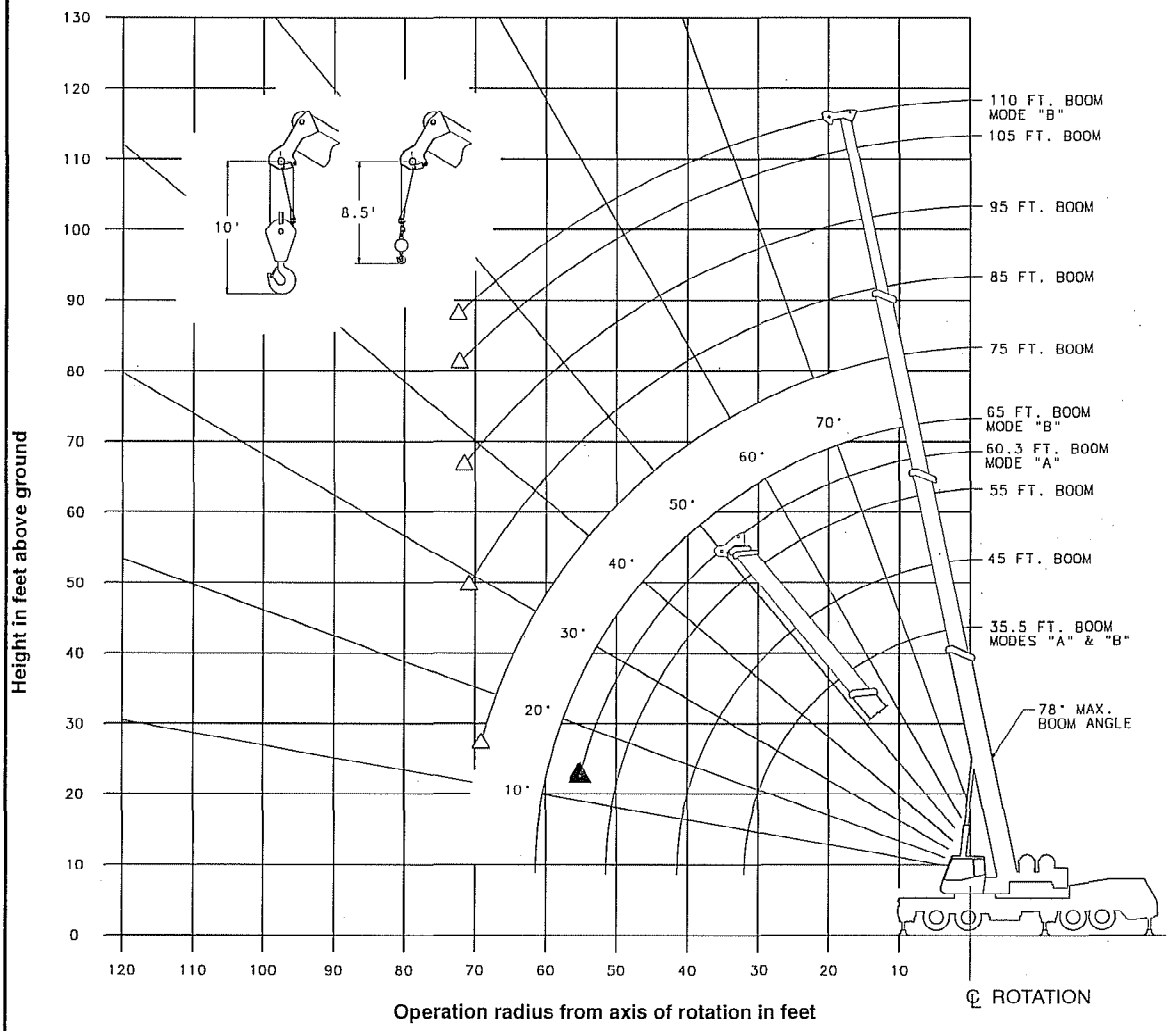
WORKING RANGE DIAGRAM

Working Range Diagram On Intermediate Extended Outriggers



12,000# Counterweight





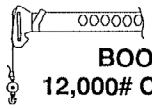
Crane Configurations Prohibited:
34 Ft Offset Fly
56 Ft Offset Fly

▲ Denotes Main Boom–Boom Mode "A"
△ Denotes Main Boom–Boom Mode "B"

Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

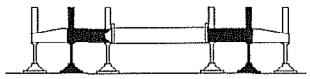
⚠ WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



BOOM MODE "A"
12,000# COUNTERWEIGHT

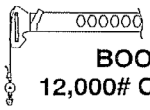
Rated Lifting Capacities In Pounds
On Intermediate Extended Outriggers
See Set Up Note 2.



35.5 Ft. To 45 Ft. Main Boom

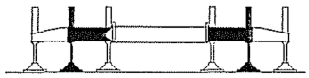
Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	112,800	73.5	87,100	10
12	65.0	99,600	71.0	87,100	12
15	59.5	68,700	66.5	67,500	15
20	49.5	38,800	59.5	38,000	20
25	37.5	25,200	51.5	24,900	25
30	20.0	17,400	42.5	17,300	30
35			32.0	12,400	35
40			15.5	8,800	40
Min. Boom Angle/Cap.	0	14,800	0	7,700	Min. Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "A"
12,000# COUNTERWEIGHT

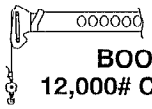
Rated Lifting Capacities In Pounds
On Intermediate Extended Outriggers
See Set Up Note 2.



55 Ft. To 60.3 Ft. Main Boom

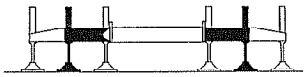
Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	77.0	79,500			10
12	75.0	72,200	76.5	61,300	12
15	71.5	63,300	73.5	57,600	15
20	65.5	37,400	68.0	37,100	20
25	59.5	24,400	62.5	24,200	25
30	53.5	17,000	57.0	16,800	30
35	46.5	12,200	51.0	12,100	35
40	38.5	8,800	44.5	8,700	40
45	29.0	6,200	37.0	6,200	45
50	14.0	4,200	28.0	4,200	50
Min. Boom Angle/Cap.	0	3,500	13.5		Min. Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
12,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Intermediate Extended Outriggers
See Set Up Note 2.



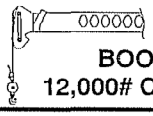
35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	112,800	73.0	42,000	76.5	42,000	10
12	65.0	99,700	70.5	42,000	74.5	42,000	12
15	59.5	68,700	66.5	42,000	71.5	42,000	15
20	49.5	38,800	59.0	39,600	65.5	40,100	20
25	37.5	25,200	51.5	26,300	59.5	26,700	25
30	20.0	17,400	42.5	18,600	53.0	19,200	30
35			32.0	13,600	46.0	14,300	35
40			15.5	10,000	38.5	10,800	40
45					28.5	8,200	45
50					14.0	6,100	50
Min.Boom Angle/Cap.	0	14,800	0	8,900	0	5,500	Min.Boom Angle/Cap

65 Ft. To 85 Ft. Main Boom

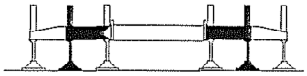
Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
12	77.0	42,000					12
15	74.5	42,000	77.0	42,000			15
20	70.0	40,400	73.0	40,600	75.5	35,900	20
25	65.0	27,000	68.5	27,200	72.0	27,400	25
30	60.0	19,500	64.5	19,700	68.0	19,900	30
35	54.5	14,700	60.0	14,800	64.0	15,000	35
40	48.5	11,300	55.5	11,500	60.5	11,700	40
45	42.5	8,700	50.5	9,000	56.0	9,200	45
50	35.5	6,700	45.5	7,000	52.0	7,200	50
55	26.5	5,100	39.5	5,400	47.5	5,700	55
60	13.0	3,700	33.0	4,100	42.5	4,400	60
65			24.5	3,100	37.0	3,300	65
70					31.0	2,400	70
Min.Boom Angle/Cap.	0	3,300	14.5		29.0		Min.Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
12,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Intermediate Extended Outriggers
See Set Up Note 2.



95 Ft. To 110 Ft. Main Boom

Load Radius In Feet	95 Ft.		105 Ft.		110 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg)	360°	Loaded Boom Angle (Deg.)	360°	
20	77.5	31,800					20
25	74.5	27,400	76.0	25,700	77.0	22,600	25
30	71.0	20,000	73.0	20,000	74.0	20,100	30
35	67.5	15,100	70.0	15,100	71.5	15,200	35
40	64.0	11,800	67.0	11,900	68.5	11,900	40
45	60.5	9,300	64.0	9,300	65.5	9,400	45
50	57.0	7,300	60.5	7,400	62.5	7,400	50
55	53.0	5,800	57.5	5,900	59.5	5,900	55
60	49.0	4,500	54.0	4,600	56.0	4,700	60
65	45.0	3,500	50.5	3,600	52.5	3,700	65
70	40.5	2,600	46.5	2,700	49.5	2,800	70
Min. Boom Angle/ Cap.	38.0		44.0		46.5		Min. Boom Angle/ Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

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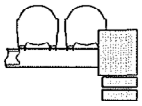
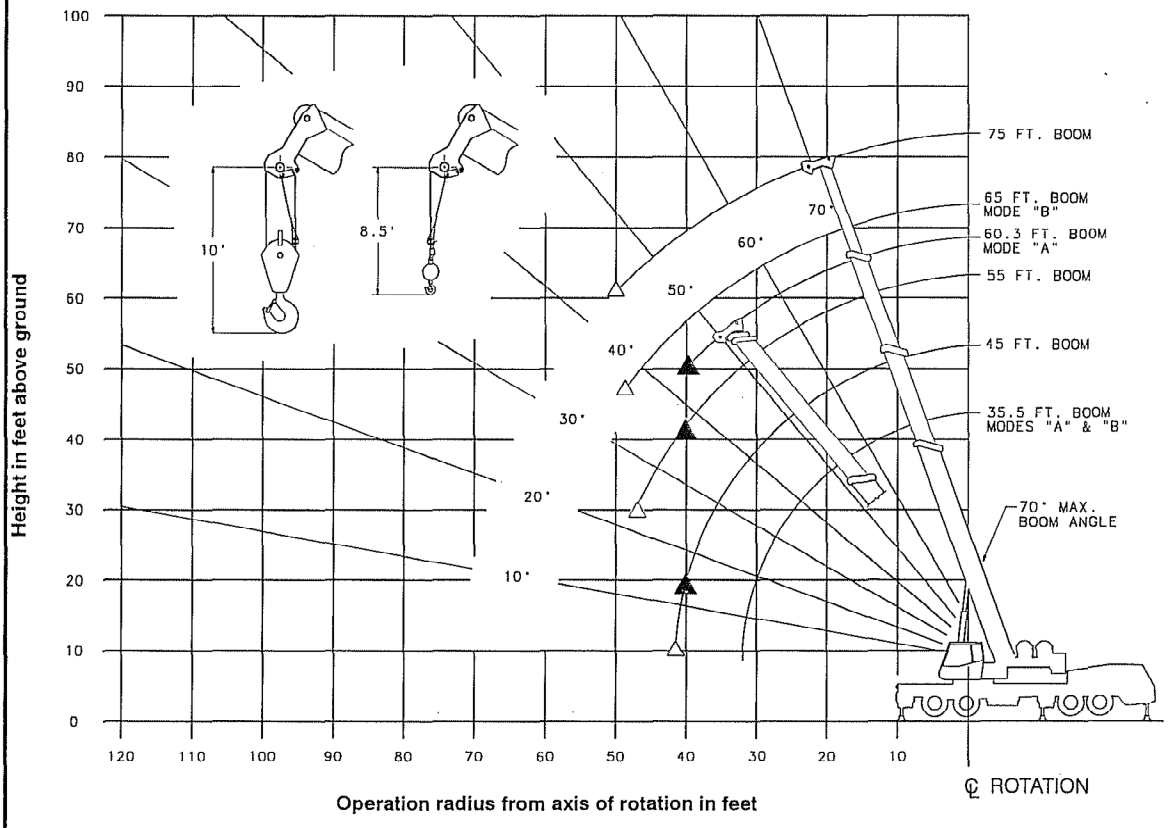
WORKING RANGE DIAGRAM

Working Range Diagram
On Fully Retracted Outriggers

12,000# Counterweight





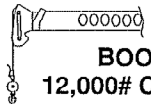
Crane Configurations Prohibited:
- Boom Angle Greater Than 70°
- Boom Lengths Greater Than 75 Ft
- 34 Ft Offset Fly
- 56 Ft Offset Fly
- 6,000# or 9,000# Counterweight

▲ Denotes Main Boom–Boom Mode "A"
△ Denotes Main Boom–Boom Mode "B"

Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

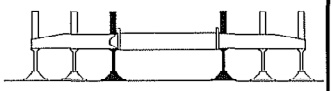
⚠ WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



BOOM MODE "A"
12,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Retracted Outriggers
See Set Up Note 2.



35.5 Ft. To 45 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	62,700			10
12	65.0	45,200			12
15	59.5	30,600	66.5	29,900	15
20	49.0	18,100	59.0	17,800	20
25	37.5	11,500	51.5	11,300	25
30	20.0	7,200	42.5	7,200	30
35			31.5	4,300	35
Min.Boom Angle/Cap.	0	5,700	14.0		Min.Boom Angle/Cap.

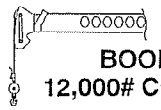
55 Ft. To 60.3 Ft. Main Boom

Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
20	65.5	17,400	68.0	17,100	20
25	59.5	11,000	62.5	10,900	25
30	53.0	7,000	57.0	6,900	30
35	46.0	4,200	51.0	4,100	35
Min.Boom Angle/Cap.	37.0		44.0		Min.Boom Angle/Cap.

⚠ WARNING

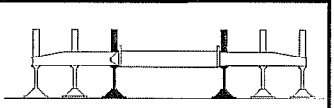
Do Not Raise The Boom Above 70 Degrees. Loss of Backward Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
12,000# COUNTERWEIGHT

Rated Lifting Capacities In Pounds
On Fully Retracted Outriggers
See Set Up Note 2.



35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	62,700					10
12	65.0	45,200					12
15	59.5	30,600	66.5	31,400			15
20	49.0	18,100	59.0	19,100	65.5	19,600	20
25	37.5	11,500	51.5	12,500	59.5	13,000	25
30	20.0	7,200	42.5	8,300	53.0	9,000	30
35			31.5	5,500	46.0	6,100	35
40			15.5	3,300	38.0	4,100	40
45					28.5	2,500	45
Min.Boom Angle/Cap.	0	5,700	0	2,600	24.0		Min.Boom Angle/Cap.

65 Ft. To 75 Ft. Main Boom

Load Radius In Feet	65 Ft.		75 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
20	69.5	19,800			20
25	64.5	13,300	68.5	13,500	25
30	59.5	9,300	64.0	9,600	30
35	54.0	6,500	59.5	6,800	35
40	48.5	4,500	55.0	4,800	40
45	42.5	2,900	50.5	3,200	45
Min. Boom Angle/Cap.	36.5		44.5		Min. Boom Angle/Cap.

⚠ WARNING

Do Not Raise The Boom Above 70 Degrees. Loss of Backward Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

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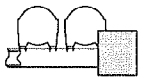
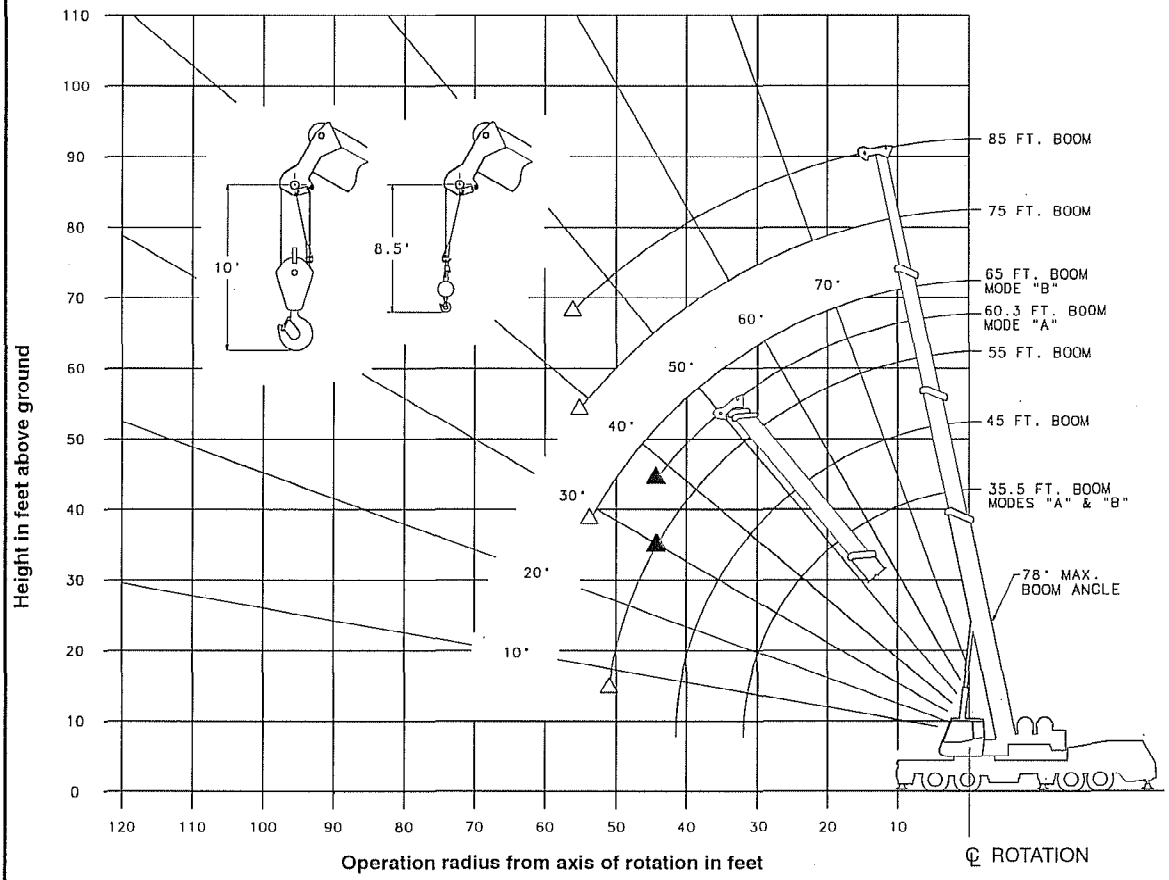
WORKING RANGE DIAGRAM

6,000# Counterweight



Working Range Diagram On Tires



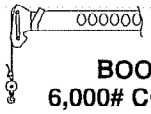
Crane Configurations Prohibited:
- Boom Lengths Greater Than 85 Ft
- 34 Ft Offset Fly
- 56 Ft Offset Fly

▲ Denotes Main Boom–Boom Mode "A"
△ Denotes Main Boom–Boom Mode "B"

Note: Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

⚠ WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



BOOM MODE "A"
6,000# COUNTERWEIGHT

On Tire Capacities In Pounds
Stationary Capacities - Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.

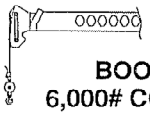
35.5 Ft. To 45 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	36,400			10
12	65.0	33,100			12
15	59.5	28,900	66.5	28,700	15
20	49.0	19,000	59.0	18,800	20
25	37.5	12,900	51.5	12,700	25
30	20.0	8,900	42.5	8,800	30
35			32.0	6,100	35
40			15.5	4,000	40
Min.Boom Angle/Cap.	0	7,400	0	3,300	Min.Boom Angle/Cap.

55 Ft. To 60.3 Ft. Main Boom

Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
20	65.5	18,500			20
25	59.5	12,500	62.5	12,400	25
30	53.0	8,700	57.0	8,600	30
35	46.0	6,000	51.0	5,900	35
40	38.5	4,000	44.5	4,000	40
Min.Boom Angle/Cap.	30.0		38.0		Min.Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
6,000# COUNTERWEIGHT

On Tire Capacities In Pounds
Stationary Capacities - Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.

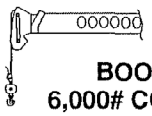
35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	36,400					10
12	65.0	33,100					12
15	59.5	28,900	66.5	29,300			15
20	49.0	19,000	59.0	19,800	65.5	20,300	20
25	37.5	12,900	51.5	13,700	59.5	14,200	25
30	20.0	8,900	42.5	9,800	53.0	10,300	30
35			31.5	7,000	46.0	7,600	35
40			15.5	4,900	38.5	5,600	40
45					28.5	4,000	45
50					14.0	2,700	50
Min.Boom Angle/Cap.	0	7,400	0	4,300	7.5		Min.Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom

Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	64.5	14,500					25
30	59.5	10,600	64.0	10,900			30
35	54.5	7,900	60.0	8,100	64.0	8,300	35
40	48.5	5,900	55.0	6,100	60.0	6,300	40
45	42.5	4,400	50.5	4,600	56.0	4,800	45
50	35.0	3,200	45.0	3,400	51.5	3,600	50
					47.0	2,600	55
Min.Boom Angle/Cap	28.5		38.5		45.5		Min.Boom Angle/Cap

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "A"
6,000# COUNTERWEIGHT

On Tire Capacities In Pounds
Pick & Carry (1 MPH) Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.

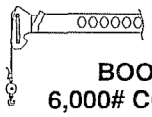
35.5 Ft. To 45 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	24,900			10
12	64.5	22,400			12
15	59.0	19,300	66.5	19,000	15
20	49.0	15,100	59.0	14,900	20
25	37.5	12,000	51.5	11,800	25
30	20.0	8,900	42.5	8,800	30
35			32.0	6,100	35
40			15.5	4,000	40
Min.Boom Angle/Cap	0	7,400	0	3,300	Min.Boom Angle/Cap

55 Ft. To 60.3 Ft. Main Boom

Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
20	65.5	14,800			20
25	59.5	11,700	62.5	11,600	25
30	53.0	8,700	57.0	8,600	30
35	46.0	6,000	51.0	5,900	35
40	38.5	4,000	44.5	4,000	40
Min.Boom Angle/Cap	30.0		38.0		Min.Boom Angle/Cap

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
6,000# COUNTERWEIGHT

On Tire Capacities In Pounds
Pick & Carry (1 MPH) - Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.

35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	24,900					10
12	64.5	22,400					12
15	59.0	19,300	66.5	19,700			15
20	49.0	15,100	59.0	15,600	65.0	15,900	20
25	37.5	12,000	51.5	12,600	59.5	12,900	25
30	20.0	8,900	42.5	9,800	53.0	10,300	30
35			31.5	7,000	46.0	7,600	35
40			15.5	4,900	38.5	5,600	40
45					28.5	4,000	45
50					14.0	2,700	50
Min.Boom Angle/Cap	0	7,400	0	4,300	7.5		Min.Boom Angle/Cap

65 Ft. To 85 Ft. Main Boom

Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	64.5	13,100					25
30	59.5	10,600	64.0	10,900			30
35	54.5	7,900	60.0	8,100	64.0	8,300	35
40	48.5	5,900	55.0	6,100	60.0	6,300	40
45	42.5	4,400	50.5	4,600	56.0	4,800	45
50	35.0	3,200	45.0	3,400	51.5	3,600	50
					47.0	2,600	55
Min.Boom Angle/Cap	28.5		38.5		45.5		Min.Boom Angle/Cap

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

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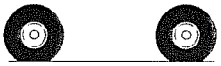
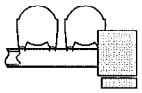
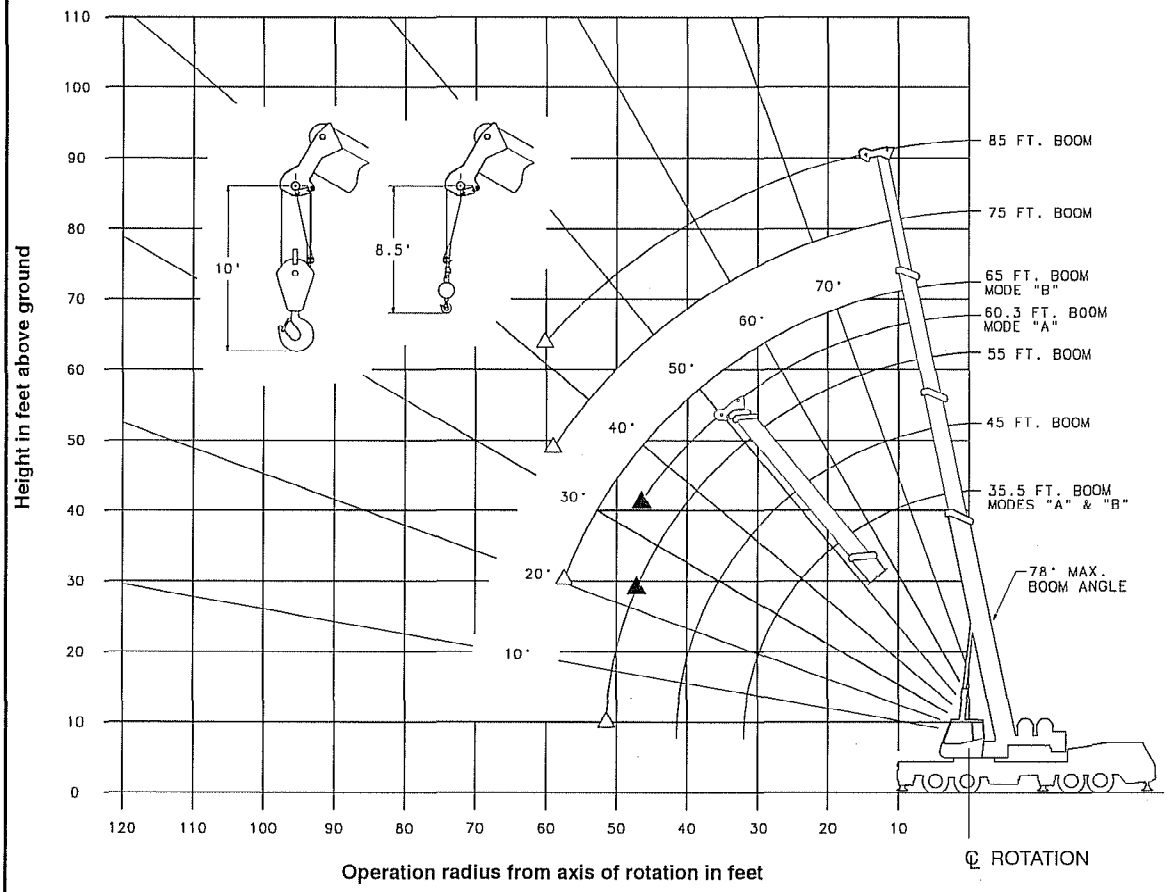
WORKING RANGE DIAGRAM

Working Range Diagram On Tires



9,000# Counterweight





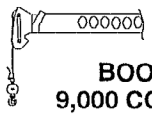
Crane Configurations Prohibited:
Boom Lengths Greater Than 85 Ft
34 Ft Offset Fly
56 Ft Offset Fly

▲ Denotes Main Boom–Boom Mode "A"
△ Denotes Main Boom–Boom Mode "B"

Note: Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

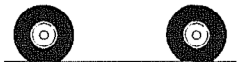
WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



BOOM MODE "A"
9,000 COUNTERWEIGHT

On Tire Capacities In Pounds
Stationary Capacities - Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.



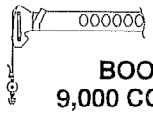
35.5 Ft. To 45 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	36,300			10
12	65.0	33,100			12
15	59.5	28,900	66.5	28,700	15
20	49.0	21,000	59.0	20,700	20
25	37.5	14,400	51.5	14,200	25
30	20.0	10,100	42.5	10,100	30
35			32.0	7,100	35
40			15.5	4,900	40
Min.Boom Angle/Cap.	0	8,600	0	4,200	Min.Boom Angle/Cap.

55 Ft. To 60.3 Ft. Main Boom

Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
20	65.5	20,400			20
25	59.5	14,000	62.5	13,900	25
30	53.0	9,900	57.0	9,800	30
35	46.0	7,000	51.0	7,000	35
40	38.5	4,900	44.5	4,900	40
45	29.0	3,300	37.0	3,200	45
Min.Boom Angle/Cap.	23.0		33.0		Min.Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
9,000 COUNTERWEIGHT

On Tire Capacities In Pounds
Stationary Capacities - Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.

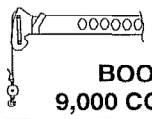
35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	36,300					10
12	65.0	33,100					12
15	59.5	28,900	66.5	29,300			15
20	49.0	21,000	59.0	21,800	65.5	22,200	20
25	37.5	14,400	51.5	15,200	59.5	15,700	25
30	20.0	10,100	42.5	11,100	53.0	11,600	30
35			31.5	8,100	46.0	8,600	35
40			15.5	5,900	38.5	6,500	40
45					28.5	4,800	45
50					14.0	3,400	50
Min.Boom Angle/Cap.	0	8,600	0	5,200	0	3,000	Min.Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom

Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	64.5	16,000					25
30	59.5	11,900	64.0	12,100			30
35	54.5	9,000	60.0	9,200	64.0	9,400	35
40	48.5	6,800	55.0	7,100	60.0	7,200	40
45	42.5	5,200	50.5	5,400	56.0	5,600	45
50	35.0	3,900	45.0	4,100	51.5	4,300	50
55	26.5	2,800	39.5	3,100	47.0	3,200	55
Min. Boom Angle/Cap.	20.5		33.5		41.5		Min. Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "A"
9,000 COUNTERWEIGHT

On Tire Capacities In Pounds
Pick & Carry (1MPH) - Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.

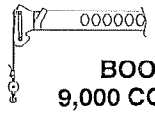
35.5 Ft. To 45 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg)	Load	
10	68.5	24,800			10
12	64.5	22,400			12
15	59.0	19,300	66.5	19,000	15
20	49.0	15,100	59.0	14,900	20
25	37.5	12,000	51.5	11,800	25
30	20.0	9,400	42.5	9,300	30
35			32.0	7,100	35
40			15.5	4,900	40
Min. Boom Angle/Cap.	0	8,300	0	4,200	Min. Boom Angle/Cap.

55 Ft. To 60.3 Ft. Main Boom

Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg)	Load	
20	65.5	14,800			20
25	59.5	11,700	62.5	11,600	25
30	53.0	9,200	57.0	9,100	30
35	46.0	7,000	51.0	7,000	35
40	38.5	4,900	44.5	4,900	40
45	29.0	3,300	37.0	3,200	45
Min. Boom Angle/Cap	23.0		33.0		Min. Boom Angle/Cap

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
9,000 COUNTERWEIGHT

On Tire Capacities In Pounds
Pick & Carry (1MPH) - Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.

35 .5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft		45 Ft		55 Ft		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	24,800					10
12	64.5	22,400					12
15	59.0	19,300	66.5	19,600			15
20	49.0	15,100	59.0	15,600	65.0	15,900	20
25	37.5	12,000	51.5	12,600	59.5	12,900	25
30	20.0	9,400	42.5	10,100	53.0	10,500	30
35			31.5	8,100	46.0	8,500	35
40			15.5	5,900	38.5	6,500	40
45					28.5	4,800	45
Min. Boom Angle/Cap	0	8,300	0	5,200	0	3,000	Min. Boom Angle/Cap

65 Ft. To 85 Ft. Main Boom

Load Radius In Feet	65 Ft		75 Ft		85 Ft		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	64.5	13,100					25
30	59.5	10,700	64.0	10,900			30
35	54.5	8,800	60.0	9,000	64.0	9,100	35
40	48.5	6,800	55.0	7,100	60.0	7,200	40
45	42.5	5,200	50.5	5,400	56.0	5,600	45
50	35.0	3,900	45.0	4,100	51.5	4,300	50
55	26.5	2,800	39.5	3,100	47.0	3,200	55
Min. Boom Angle/Cap	20.5		33.5		41.5		Min. Boom Angle/Cap

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

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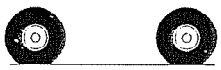
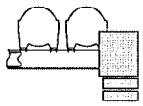
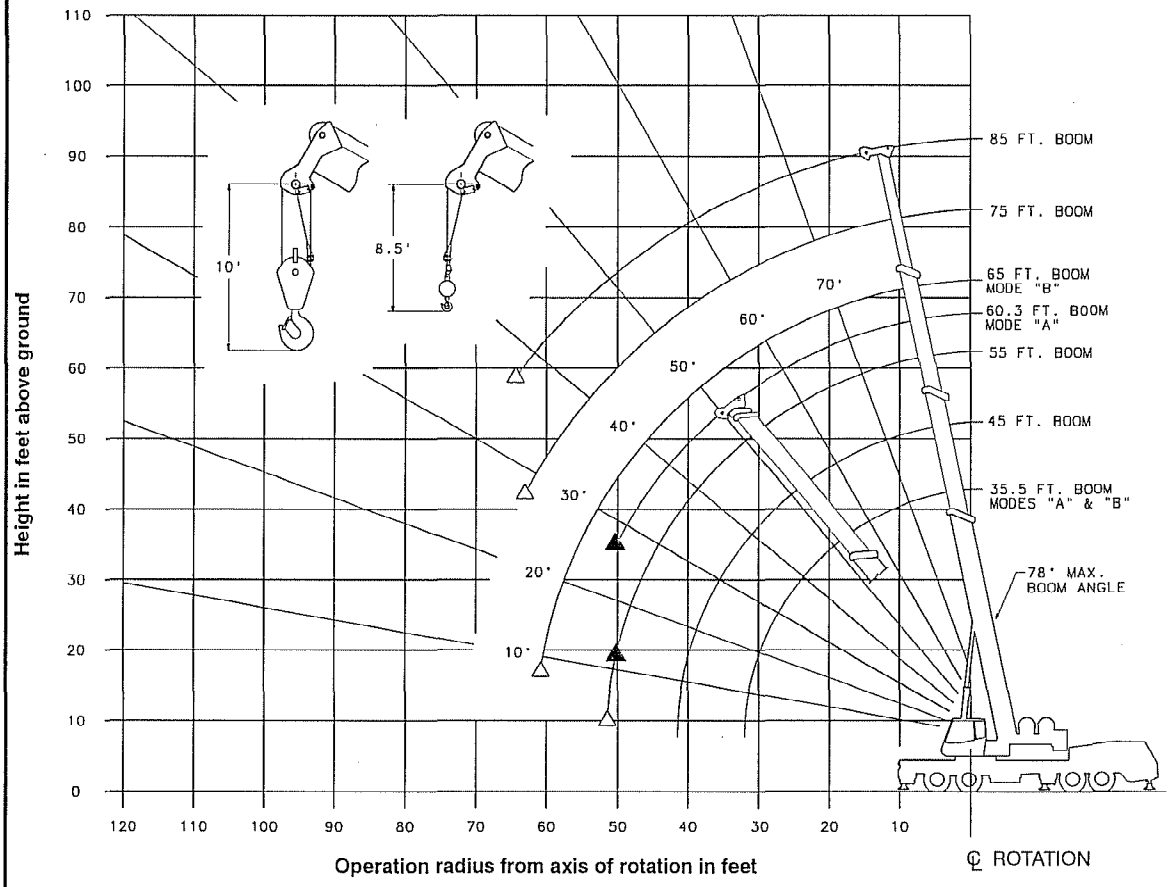
WORKING RANGE DIAGRAM

Working Range Diagram On Tires



12,000# Counterweight





Crane Configurations Prohibited:
- Boom Lengths Greater Than 85 Ft
- 34 Ft Offset Fly
- 56 Ft Offset Fly

▲ Denotes Main Boom–Boom Mode "A"
△ Denotes Main Boom–Boom Mode "B"

Note: Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

⚠ WARNING

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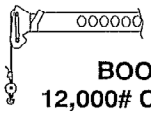


BOOM MODE "A"
12,000# COUNTERWEIGHT

On Tire Capacities In Pounds
Stationary Capacities - Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.

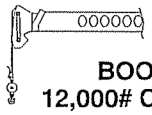
35.5 Ft. To 45 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	36,300			10
12	65.0	33,100			12
15	59.5	28,900	66.5	28,700	15
20	49.0	23,000	59.0	22,700	20
25	37.5	15,900	51.5	15,700	25
30	20.0	11,400	42.5	11,300	30
35			32.0	8,200	35
40			15.5	5,800	40
Min.Boom Angle/Cap	0	9,700	0	5,100	Min.Boom Angle/Cap

55 Ft. To 60.3 Ft. Main Boom

Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
20	65.5	22,400			20
25	59.5	15,500	62.5	15,400	25
30	53.0	11,200	57.0	11,100	30
35	46.0	8,100	51.0	8,000	35
40	38.5	5,800	44.5	5,800	40
45	29.0	4,100	37.0	4,000	45
50	14.0	2,600	28.0	2,700	50
Min.Boom Angle/Cap	12.5		27.0		Min.Boom Angle/Cap

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
12,000# COUNTERWEIGHT

On Tire Capacities In Pounds
Stationary Capacities - Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.

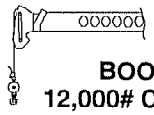
35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	36,300					10
12	65.0	33,100					12
15	59.5	28,900	66.5	29,300			15
20	49.0	23,000	59.0	23,700	65.5	24,200	20
25	37.5	15,900	51.5	16,700	59.5	17,200	25
30	20.0	11,400	42.5	12,300	53.0	12,800	30
35			32.0	9,200	46.0	9,700	35
40			15.5	6,800	38.5	7,400	40
45					28.5	5,600	45
50					14.0	4,200	50
Min.Boom Angle/Cap.	0	9,700	0	6,000	0	3,700	Min.Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom

Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	64.5	17,500					25
30	59.5	13,100	64.0	13,300			30
35	54.5	10,000	60.0	10,200	64.0	10,400	35
40	48.5	7,700	55.5	8,000	60.0	8,100	40
45	42.5	6,000	50.5	6,200	56.0	6,400	45
50	35.0	4,600	45.0	4,800	52.0	5,000	50
55	26.5	3,400	39.5	3,700	47.5	3,900	55
60	13.0	2,500	33.0	2,800	42.5	3,000	60
Min.Boom Angle/Cap.	8.5		27.5		37.0		Min.Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



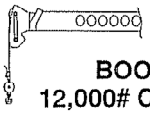
BOOM MODE "A"
12,000# COUNTERWEIGHT

On Tire Capacities In Pounds
Pick & Carry (1MPH) - Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.

35.5 Ft. To 45 Ft. Main Boom					
Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	24,800			10
12	64.5	22,400			12
15	59.0	19,300	66.5	19,000	15
20	49.0	15,100	59.0	14,900	20
25	37.5	12,000	51.5	11,800	25
30	20.0	9,400	42.5	9,300	30
35			32.0	7,300	35
40			15.5	5,500	40
Min.Boom Angle/Cap	0	8,300	0	4,900	Min.Boom Angle/Cap

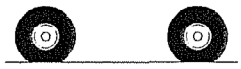
55 Ft. To 60.3 Ft. Main Boom					
Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
20	65.5	14,800			20
25	59.5	11,700	62.5	11,600	25
30	53.0	9,200	57.0	9,100	30
35	46.0	7,200	51.0	7,100	35
40	38.5	5,500	44.5	5,500	40
45	29.0	4,100	37.0	4,000	45
50	14.0	2,600	28.0	2,700	50
Min.Boom Angle/Cap	12.5		27.0		Min.Boom Angle/Cap

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.



BOOM MODE "B"
12,000# COUNTERWEIGHT

On Tire Capacities In Pounds
Pick & Carry (1MPH) - Boom Centered Over Rear
Tire Pressure: See Page 5.
See Operation Note 20.



35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	24,800					10
12	64.5	22,400					12
15	59.0	19,300	66.5	19,600			15
20	49.0	15,100	59.0	15,600	65.0	15,900	20
25	37.5	12,000	51.5	12,600	59.5	12,800	25
30	20.0	9,400	42.5	10,100	53.0	10,500	30
35			31.5	8,100	46.0	8,500	35
40			15.5	6,300	38.5	6,900	40
45					28.5	5,500	45
50					14.0	4,200	50
Min.Boom Angle/Cap.	0	8,300	0	5,800	0	3,700	Min.Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom

Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	64.5	13,100					25
30	59.5	10,700	64.0	10,900			30
35	54.5	8,800	60.0	9,000	64.0	9,100	35
40	48.5	7,200	55.0	7,400	60.0	7,500	40
45	42.5	5,800	50.5	6,100	56.0	6,200	45
50	35.0	4,600	45.0	4,800	52.0	5,000	50
55	26.5	3,400	39.5	3,700	47.5	3,900	55
60	13.0	2,500	33.0	2,800	42.5	3,000	60
Min.Boom Angle/Cap.	8.5		27.5		37.0		Min.Boom Angle/Cap.

Note: Refer To Page 8 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

Patents

This crane is covered by one or more of the following patents:

United States:

4,380,244	4,491,229
4,431,109	4,547,904
4,434,902	4,728,029

Canada
Patented Brevete:

1,212,336