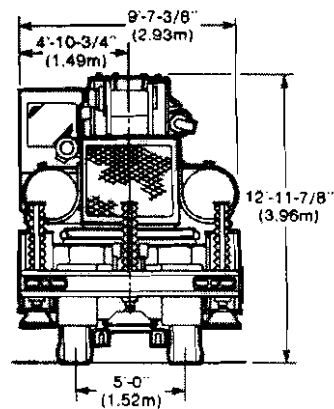
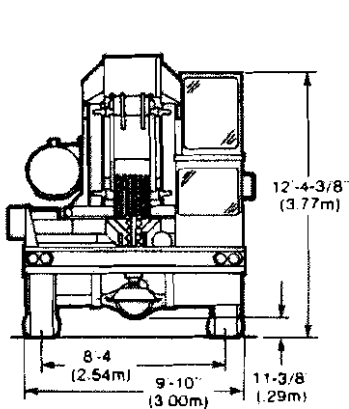
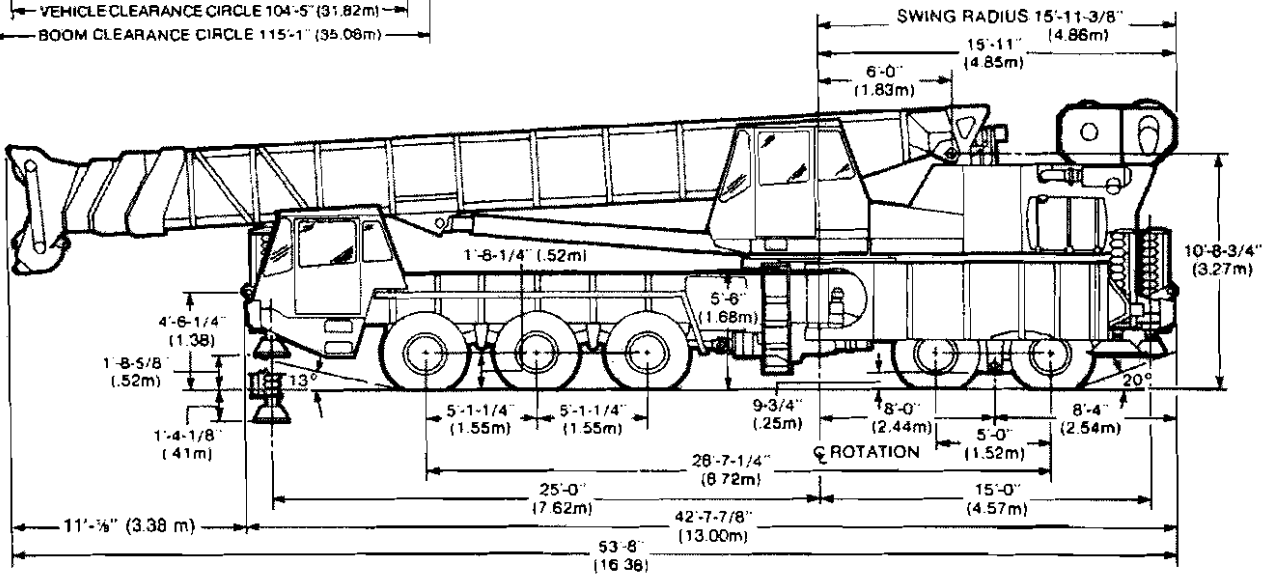
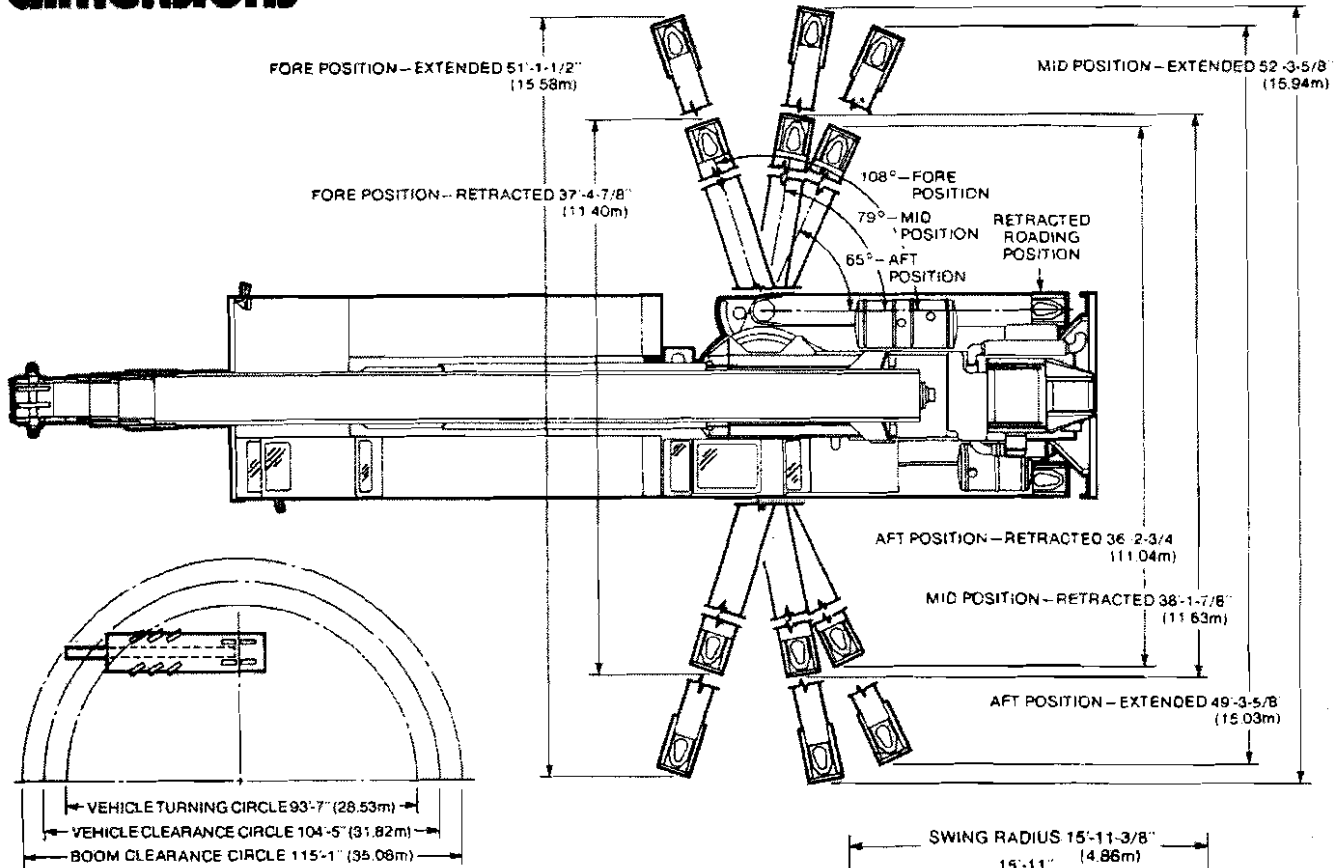


# dimensions



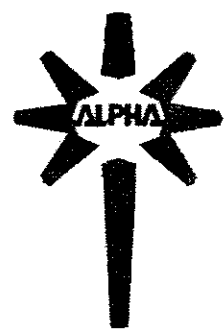
## **important**

In addition to the load rating charts mounted in the cab of the Alpha 100 LiftCraft which are programmed into the Krueger Load Moment Device, this booklet contains load rating charts for a variety of outrigger positions which are not programmed into the Krueger device. The Krueger device will not give a correct load moment reading when using these charts, although the Krueger device can be used to monitor boom angle, boom length and load radius.

# APPLICATION HANDBOOK

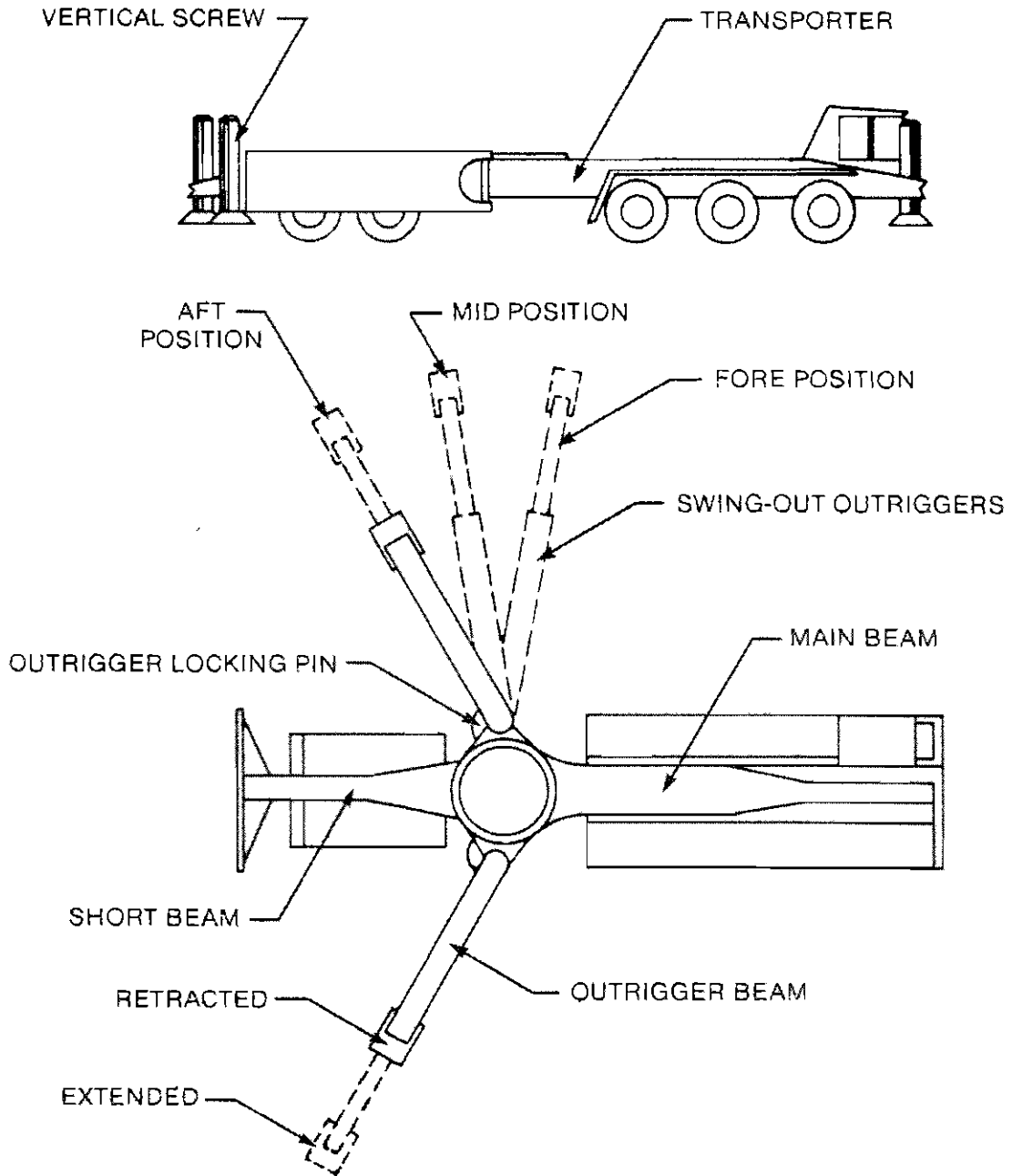
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# ALPHA 100

## liftcraft terminology



# definitions

**RATED LOAD:** The total weight (including the load, hook block, slings, and all other lifting devices) that the crane can safely lift under ideal conditions at a given boom length, boom angle, and load radius.

**LOAD RADIUS:** The horizontal distance measured between the center of rotation and the hoist load line, or tackle, with load applied.

**BOOM ANGLE:** The angle between the horizontal plane and the axis of the boom.

**BOOM POINT ELEVATION:** The vertical distance measured between the ground and the center of the boom point sheave.

**FREELY SUSPENDED LOAD:** Lifted load hanging free with no direct external force applied except by the hoist line.

**SIDE LOAD:** Horizontal force applied to the load or boom.

**ON RUBBER:** Lifting a load with tires on the supporting surface instead of the floats.

**AREA OF OPERATION:** The permissible zone where a load can be lifted. The zone is altered by outrigger configuration, jib position, or counter-weight position.

# instructions

## SET-UP

Set main beam outrigger first from front bumper control box, then level the machine on a firm supporting surface from the control boxes on the rear bumper. (Check that the surface is firm and flat at fore, mid, and aft outrigger positions if their use is intended. If the surface is not firm, increase the load bearing area under floats with large structural supports.) Do not swing boom over side until the machine has been leveled. Tires must be completely off the supporting surface.

Swing-out outriggers must be locked in fore, mid, or aft positions before side floats will lower. Rating charts are for outrigger telescoping sections being fully retracted or fully extended.

## LIFTING OPERATIONS

Rated loads are for stationary and level LiftCrafts lifting freely suspended loads.

- Rated loads do not exceed maximum percent of tipping as determined by stability test codes. See charts for actual percentage.
- Ratings above dark line are based on factors other than machine stability (such as structural strength).

Attempting to lift more than rated loads may cause LiftCraft to tip or collapse. Do not tip machine to determine capacity.

Weights of hooks, hook blocks slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.

Rated loads shown have been determined for ideal operating conditions and make no allowance for such factors as wind effect on lifted loads, soft or uneven ground conditions, out-of-level conditions, side loads, pendulum action, jerking or sudden stopping of loads, operating speed, multi-machine lifts, travelling with load, or inexperience of personnel that could be detrimental to the safe operation of this machine. The operator must judge these factors and reduce ratings accordingly.

Using two or more cranes or LiftCrafts to lift a single load can be dangerous unless carefully engineered and coordinated.

- Machines must be equalized so that each machine lifts a share of the load which is well within its load rating.
- Swing brakes must be released so that boom points are free to remain directly over the load attachment points at all times.
- Care must be used to avoid side-loading.

Do not attempt to operate at load radii or boom lengths where no load ratings are listed. At these positions, the LiftCraft could tip without any load on the hook.

Do not guess at load ratings in-between those listed on chart. When operating at a load radius or boom angle in-between listed numbers, proceed as follows:

- For a load radius not shown, use rated load of next longer listed radius.
- For a boom angle not shown, use rated load of next smaller boom angle.
- For a boom length not shown, use rated load of next longer listed boom length.

## LIFTING OPERATIONS WITH THE JIB

Configurations permitted for jib use require fully extended outrigger beams. The machine must be set-up to the desired configuration and the manual boom section must be extended before the jib can be attached. The jib can then be erected in any work area (360°) as long as these conditions are met:

- When the boom angle is less than 55°, the powered boom sections must be fully retracted, and the hook must be free of load.
- The hook at the jib point does not exceed 1200 pounds or 545 kilograms. If there is an additional hook on the extension or boom point, see the jib deduct chart.

## LIFTING OPERATIONS ON RUBBER

For Liftcraft equipped with 14:00 x 24 (Radial) tires only.

Tires must be inflated to the proper pressure as indicated on the "on rubber" chart.

Whenever possible, swing the outriggers out to the aft position for static or pick and carry lifts. This will increase the safety factor by making the machine more stable.

## TRANSPORTING

Check the following before attempting to road the LiftCraft:

- Tires are inflated to proper pressure.
- Swing-out outriggers are locked into storage position.
- Transporter throttle switch is engaged.
- Axle drive is engaged and pump drive is disengaged.

## KRUEGER LOAD MOMENT DEVICE

It is imperative that prior to any lift, the operator checks the jib configuration dial and the machine configuration panel to be sure the correct set-up is dialed in. The Krueger device will give a false reading that may cause tipping or structural damage to the machine if the wrong information is entered by the operator.

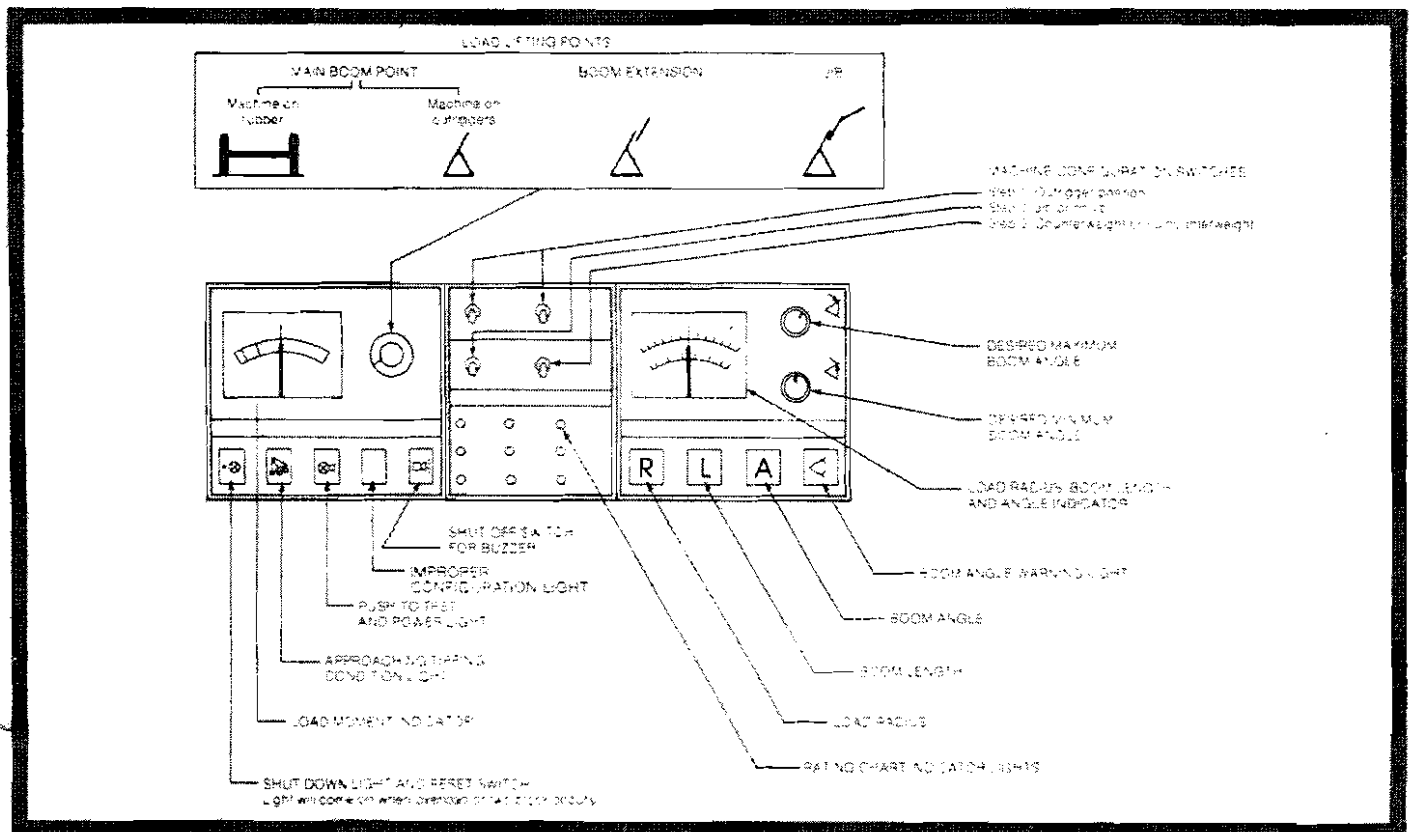
When setting the Krueger device to match machine configuration, the lights in the center will indicate which rating chart to use. If the warning buzzer sounds and no chart is indicated, the set-up conditions given to the Krueger device are incorrect. In this case, see the areas of operation for calibrated charts.

The Krueger device will only give the boom length for the main boom, manual section, and extension. When using the jib, consult the range diagram for boom length.

For operational information, see the instruction manual supplied with this machine.

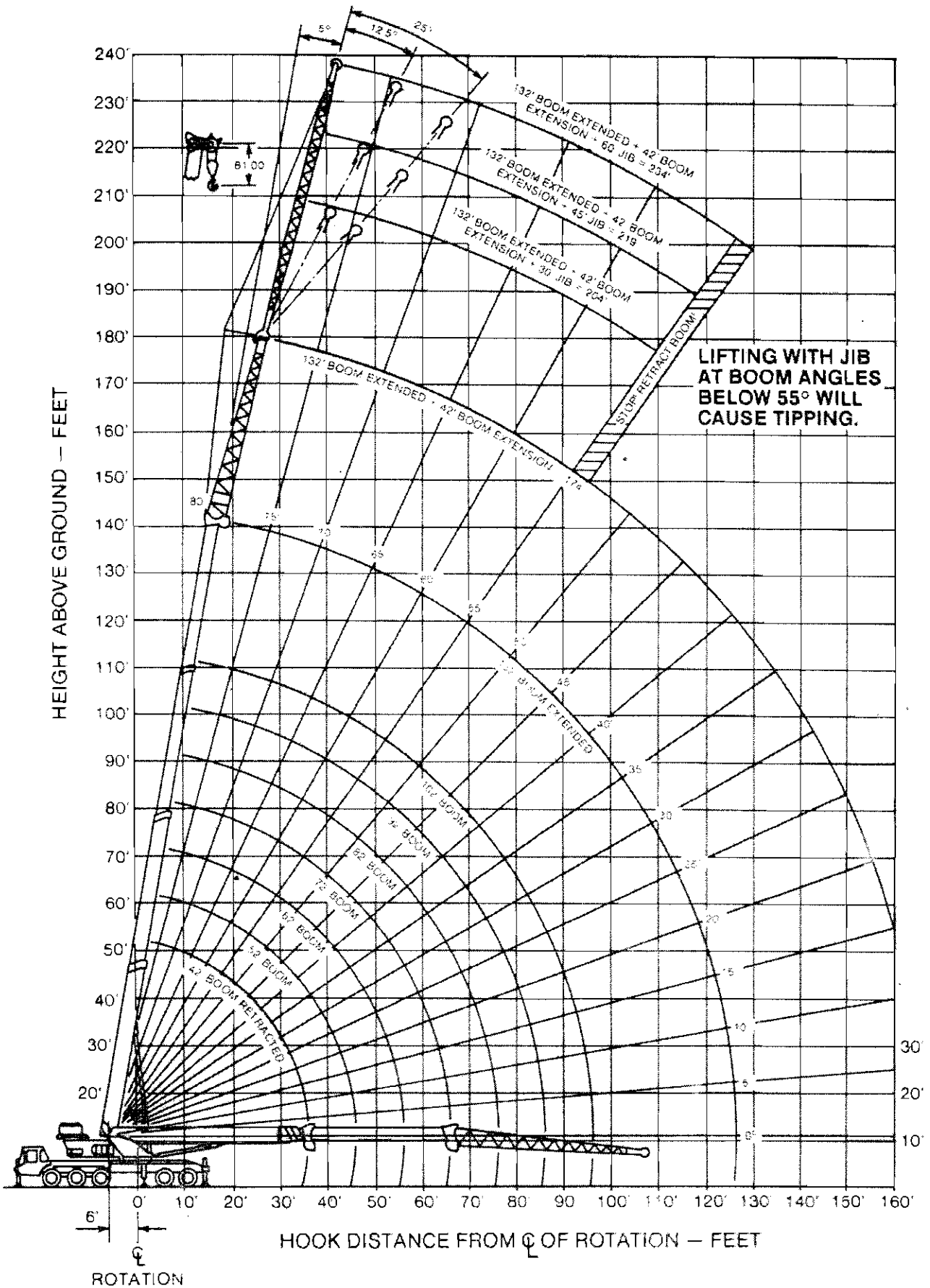
The Krueger Load Moment Device is calibrated for outrigger positions which include rating charts 1 through 6 plus jib charts A, B and C. For rating charts 7 through 30 and jib charts D thru K refer to operational instructions for noncalibrated outrigger positions.

(See Figure Below)



# range diagram

see rating charts for lift capacities.



## HOIST LINE WIRE ROPE STRENGTH

Type Spin Resistant	3/8"-8x18 IWRC	1/2"-8x18 IWRC
Breaking Strength	70,000 lbs. (31,752 kg)	51,800 lbs. (23,496 kg)
Permissible Strength (3.5 S.F.)	20,000 lbs. (9,072 kg)	14,800 lbs. (6,713 kg)

Rated loads have been determined for ideal operating conditions. The user must limit or de-rate lifted loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, winds, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).

Rated loads are for P&H manufactured upper, transporter, boom, jib and counterweights only. Rated loads only apply when all the instructions in this manual are rigidly followed. Modifications to this machine, or use of equipment other than that specified can reduce capacity.

This machine meets the requirements of A.N.S.I. B30.15. Upper transporter, boom, and jib structures have been tested per SAE J1063. Machine stability has been tested per SAE J765a.

## deductions

LOAD LOCATED ON MAIN BOOM. EMPTY HOOK DESCRIPTION BELOW.	DEDUCT IN LBS.
10 Ton Ball Hook on Extension	7,100
30 Ton Hook Block on Extension	9,200
10 Ton Ball Hook on 30' Jib	12,000
10 Ton Ball Hook on 45' Jib	14,500
10 Ton Ball Hook on 60' Jib	17,200

LOAD LOCATED ON EXTENSION. EMPTY HOOK DESCRIPTION BELOW.	DEDUCT IN LBS.
10 Ton Ball Hook on Boom Point	600
30 Ton Hook Block on Boom Point	1,100
55 Ton Hook Block on Boom Point	1,600
100 Ton Hook Block on Boom Point	1,950
10 Ton Ball Hook on 30' Jib	2,100
10 Ton Ball Hook on 45' Jib	2,600
10 Ton Ball Hook on 60' Jib	3,100

## hook weights

	BALL HOOKS		HOOK BLOCKS		
Tons	9.5	10	30	55	100
No. of Sheaves	—	—	1	3	6
Weight — Lbs.	420	600	1,100	1,600	1,950

## hoist line loads IN LBS.

PARTS OF LINE — MAIN WINCH		
1	2	3
17,000	34,000	51,000
4	5	6
68,000	85,000	102,000
7	8	9
119,000	136,000	153,000
10	11	12
170,000	187,000	200,000
PARTS OF LINE — AUX. WINCH		
1	2	3
11,500	23,000	34,500
4	5	6
46,000	57,500	69,000



calibrated rating charts

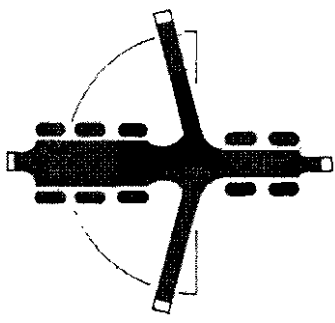
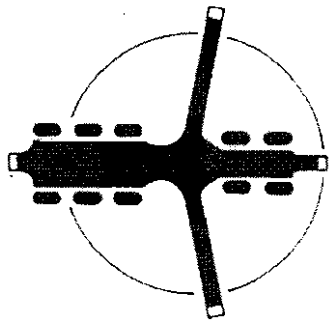
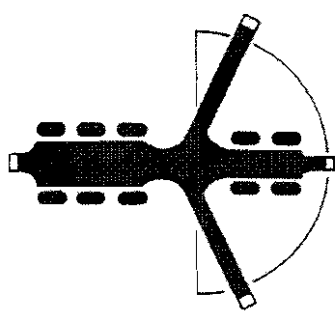

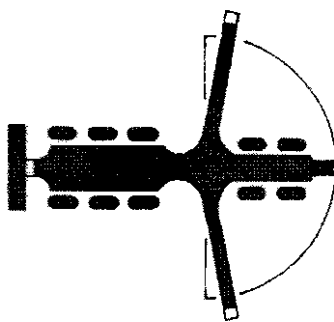
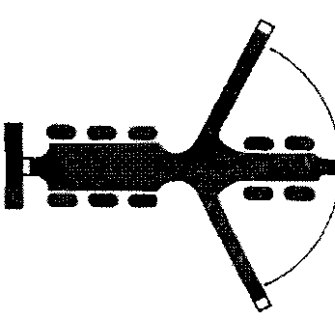
# permitted areas of operation

## (for calibrated outrigger positions)

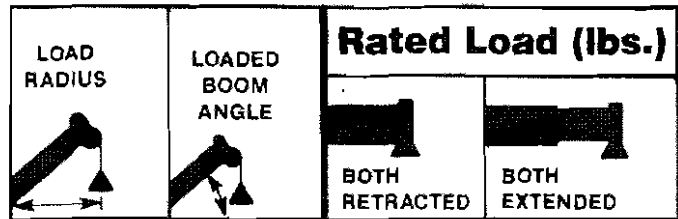
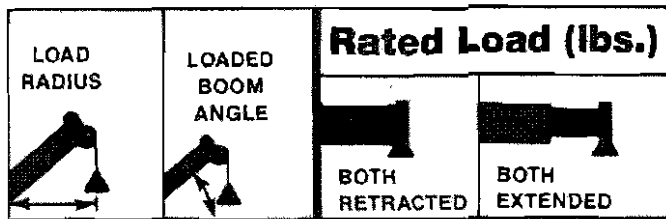
**AREA OF OPERATION:** The permissible zone where a load can be lifted. The zone is altered by outrigger configuration, jib position, or counter-weight position.

### CONDITIONS

Both outriggers must be in fore, mid, or aft positions. For instance, both are in fore, or both are in mid. With standard charts 1-5, both outriggers must be fully extended or both outriggers must be fully retracted. In other words, both outriggers must be symmetrical.

 <p>For 180° over-the-front, lock outriggers in the FORE position. See Standard Rating Chart 1 or Jib Chart A when jib is in use.</p>	 <p>For 360° operation, lock outriggers in the MID position. See Standard Rating Chart 2 or Jib Chart B when jib is in use.</p>	 <p>For 180° over-the-rear, lock outriggers in the AFT position. See Standard Rating Chart 3. There is no jib chart unless counterweight is installed. See configuration below.</p>
 <p>For pick and carry operations or 360° operation without outrigger, see On Rubber Chart 6.</p>	 <p>For 180° over-the-rear, lock outriggers in the MID position and install front counterweight. See Standard Rating Chart 4. There is no jib chart for this configuration.</p>	 <p>For 130° over-the-rear, lock outriggers in the AFT position and install front counterweight. See Standard Rating Chart 5 or Jib Chart C when jib is in use.</p>

**Warning:** The Load Moment Device is calibrated only for the charts referred to on this page.



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	68°	200,000	165,000
15	63°	155,000	129,000
20	55°	118,000	93,800
25	45°	73,200	72,500
30	34°	49,100	58,300
35	16°	35,600	48,100

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	73,200	72,500
30	66°	49,100	58,300
35	62°	35,600	48,100
40	58°	27,000	40,700
45	54°	21,000	31,800
50	49°	16,800	25,700
60	38°	10,800	17,300
70	24°	6,900	12,000

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	72°	160,000	160,000
15	69°	155,000	129,000
20	63°	118,000	93,800
25	56°	73,200	72,500
30	49°	49,100	58,300
35	41°	35,600	48,100
40	30°	27,000	40,700
45	14°	21,000	31,800

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	49,100	53,500
35	65°	35,600	46,000
40	62°	27,000	40,200
45	59°	21,000	31,800
50	55°	16,800	25,700
60	46°	10,800	17,300
70	36°	6,900	12,000
80	23°	4,200	8,400

62 ft. boom length manual retracted

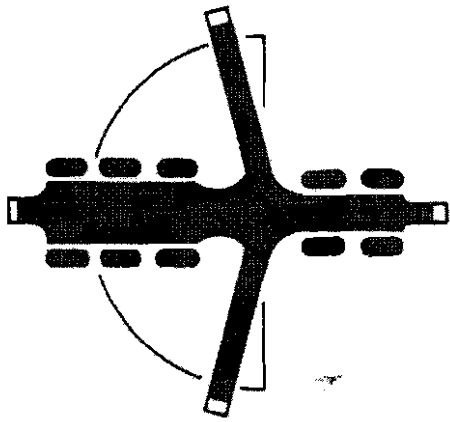
LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	76°	153,000	153,000
15	73°	141,000	129,000
20	68°	118,000	93,800
25	62°	73,200	72,500
30	57°	49,100	58,300
35	51°	35,600	48,100
40	44°	27,000	40,700
45	37°	21,000	31,800
50	28°	16,800	25,700

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	49,100	50,000
35	69°	35,600	44,000
40	66°	27,000	39,000
45	62°	21,000	31,800
50	59°	16,800	25,700
60	52°	10,800	17,300
70	44°	6,900	12,000
80	35°	4,200	8,400
90	22°	2,300	5,800

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	108,000	93,800
25	67°	73,200	72,500
30	62°	49,100	58,300
35	58°	35,600	48,100
40	52°	27,000	40,700
45	47°	21,000	31,800
50	41°	16,800	25,700
60	26°	10,800	17,300



# 1

## LiftCraft

### SET UP AND AREAS OF OPERATION

1. OUTRIGGERS: In **FORE** position, either retracted or extended.
2. **NO JIB.**
3. **NO COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **180° over the front.**

### WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed.

### WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only.** Load radius is given for the maximum boom length only.

Rating chart for — MANUAL EXTENDED

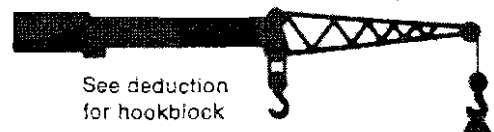


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	29,700	33,500
45	70°	23,600	30,500
50	67°	19,200	28,000
60	62°	13,100	19,700
70	57°	9,100	14,300
80	52°	6,300	10,600
90	46°	4,200	7,900
100	39°	2,600	5,800
110	30°	—	4,100
120	19°	—	2,700

Rating chart for — BOOM EXTENSION

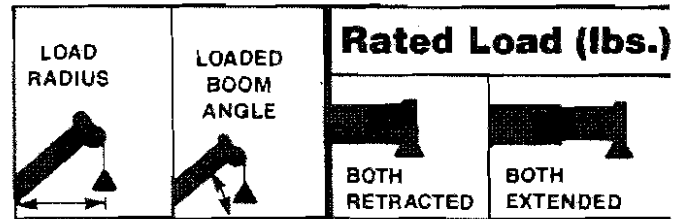
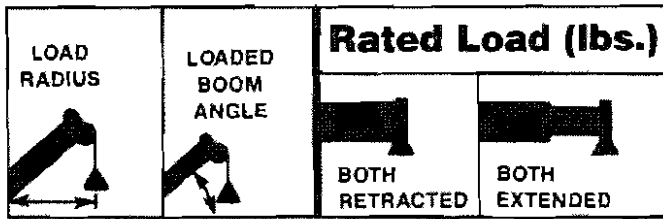
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	15,100	16,500
70	67°	11,000	15,000
80	64°	8,100	12,500
90	60°	6,000	9,700
100	55°	4,300	7,600
110	51°	3,000	5,900
120	46°	1,900	4,500
130	41°	—	3,300
140	35°	—	2,400
150	29°	—	1,600



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	68°	200,000	130,000
15	63°	155,000	113,000
20	55°	117,000	96,000
25	45°	66,500	74,500
30	34°	43,000	55,500
35	16°	30,400	39,700

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	66,500	74,500
30	66°	43,000	55,500
35	62°	30,400	39,700
40	58°	22,500	30,000
45	54°	17,000	23,200
50	49°	13,200	18,600
60	38°	7,900	12,000
70	24°	4,400	7,900

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	72°	160,000	130,000
15	69°	155,000	113,000
20	63°	117,000	96,000
25	58°	66,500	74,500
30	49°	43,000	55,500
35	41°	30,400	39,700
40	30°	22,500	30,000
45	14°	17,000	23,200

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	43,000	53,500
35	66°	30,400	39,700
40	62°	22,500	30,000
45	59°	17,000	23,200
50	55°	13,200	18,600
60	46°	7,900	12,000
70	36°	4,400	7,900
80	23°	2,100	5,000

62 ft. boom length manual retracted

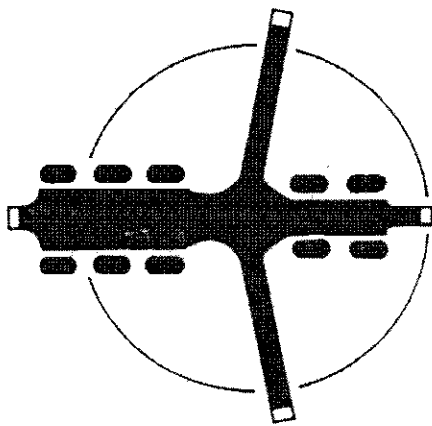
LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	76°	153,000	130,000
15	73°	141,000	113,000
20	68°	117,000	96,000
25	62°	66,500	74,500
30	57°	43,000	55,500
35	51°	30,400	39,700
40	44°	22,500	30,000
45	37°	17,000	23,200
50	28°	13,200	18,600

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	43,000	50,000
35	69°	30,400	39,700
40	66°	22,500	30,000
45	62°	17,000	23,200
50	59°	13,200	18,600
60	52°	7,900	12,000
70	44°	4,400	7,900
80	35°	2,100	5,000
90	22°	—	2,900

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	78°	136,000	130,000
15	75°	124,000	113,000
20	71°	108,000	96,000
25	67°	66,500	74,500
30	62°	43,000	55,500
35	58°	30,400	39,700
40	52°	22,500	30,000
45	47°	17,000	23,200
50	41°	13,200	18,600
60	26°	7,900	12,000



# 2

## LiftCraft

### SET UP AND AREAS OF OPERATION

1. **OUTRIGGERS:** In **MID** position, either retracted or extended.
2. **NO JIB.**
3. **NO COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **360°**.

### WARNING:

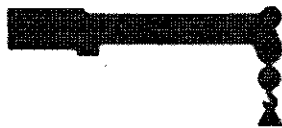
Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed.

### WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

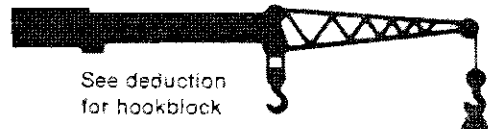


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	33,300	37,000
40	72°	25,200	32,700
45	70°	19,700	26,000
50	67°	15,700	21,000
60	62°	10,200	14,400
70	57°	6,700	10,100
80	52°	4,200	7,100
90	48°	2,400	4,900
100	39°	—	3,100
110	30°	—	1,800

Rating chart for — **BOOM EXTENSION**

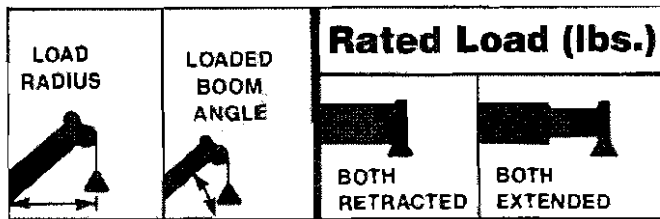
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,000	18,100
60	71°	12,300	16,500
70	67°	8,600	12,100
80	64°	6,100	9,000
90	60°	4,200	6,700
100	55°	2,700	4,900
110	51°	1,500	3,500
120	46°	—	2,400
130	41°	—	1,400



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	58°	200,000	150,000
15	63°	155,000	124,000
20	55°	113,000	89,800
25	45°	62,000	69,600
30	34°	40,600	55,800
35	16°	28,800	43,600

**CAUTION:**  
Boom must be fully retracted against stops.

52 ft. boom length manual retracted

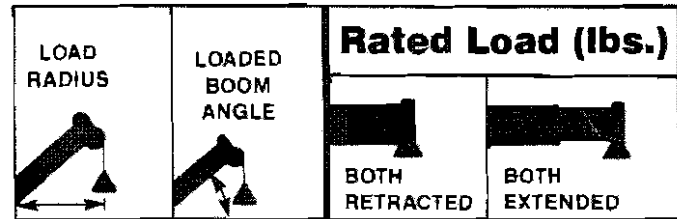
LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	72°	160,000	150,000
15	69°	155,000	124,000
20	63°	113,000	89,800
25	56°	62,000	69,600
30	49°	40,600	55,800
35	41°	28,800	43,600
40	30°	21,300	32,800
45	14°	16,100	25,400

62 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	76°	153,000	150,000
15	73°	141,000	124,000
20	68°	113,000	89,800
25	62°	62,000	69,600
30	57°	40,600	55,800
35	51°	28,800	43,600
40	44°	21,300	32,800
45	37°	16,100	25,400
50	28°	12,500	20,300

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	108,000	89,800
25	67°	62,000	69,600
30	62°	40,600	55,800
35	58°	28,800	43,600
40	52°	21,300	32,800
45	47°	16,100	25,400
50	41°	12,500	20,300
60	26°	7,400	13,300



82 ft. boom length manual retracted

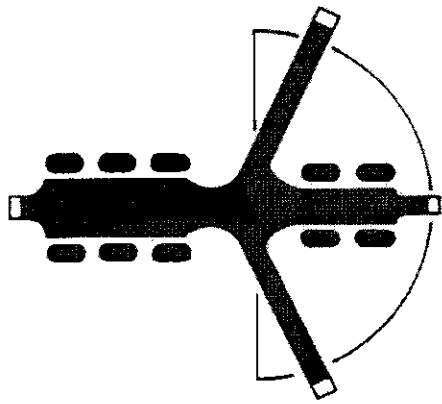
LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	62,000	69,600
30	66°	40,600	55,800
35	62°	28,800	43,600
40	58°	21,300	32,800
45	54°	16,100	25,400
50	49°	12,500	20,300
60	38°	7,400	13,300
70	24°	4,100	8,700

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	76°	74,000	74,000
25	73°	62,000	63,000
30	69°	40,600	53,500
35	66°	28,800	43,600
40	62°	21,300	32,800
45	59°	16,100	25,400
50	55°	12,500	20,300
60	46°	7,400	13,300
70	36°	4,100	8,700
80	23°	1,800	5,500

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	40,600	50,000
35	69°	28,800	43,600
40	66°	21,300	32,800
45	62°	16,100	25,400
50	59°	12,500	20,300
60	52°	7,400	13,300
70	44°	4,100	8,700
80	35°	1,800	5,500
90	22°	—	3,300



# 3 LiftCraft

## SET UP AND AREAS OF OPERATION

1. **OUTRIGGERS:** In **AFT** position, either retracted or extended.
2. **NO JIB.**
3. **NO COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **180° over the rear.**

### WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed.

### WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

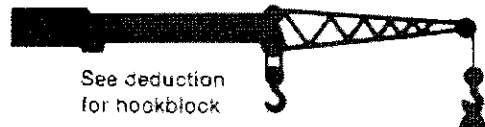


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	31,700	37,000
40	72°	24,000	33,500
45	70°	18,800	28,200
50	67°	14,900	22,900
60	62°	9,700	15,700
70	57°	6,300	11,000
80	52°	3,900	7,700
90	46°	2,100	5,400
100	39°	—	3,500
110	30°	—	2,100
120	19°	—	—

Rating chart for — **BOOM EXTENSION**

(Manual must be extended)

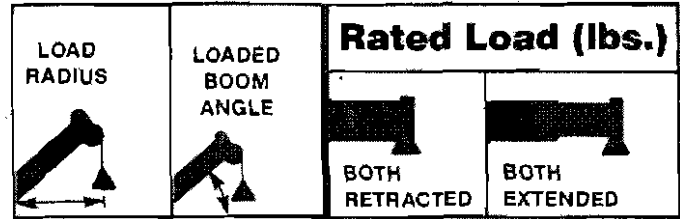
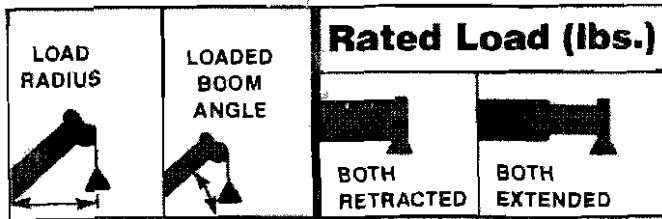


See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	17,200	18,100
60	71°	11,700	16,500
70	67°	8,200	13,100
80	64°	5,700	9,700
90	60°	3,900	7,200
100	55°	2,500	5,400
110	51°	1,300	3,900
120	46°	—	2,700
130	41°	—	1,700
140	35°	—	—
150	29°	—	—
160	20°	—	—





42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	68°	200,000	146,000
15	63°	155,000	130,000
20	55°	118,000	96,000
25	45°	88,900	74,500
30	34°	56,000	60,000
35	16°	39,000	49,600

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	75,500	74,500
30	66°	56,000	60,000
35	62°	39,000	49,600
40	58°	28,800	41,600
45	54°	21,900	33,300
50	49°	17,300	27,300
60	38°	10,800	18,800
70	24°	6,800	13,500

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	72°	160,000	146,000
15	69°	155,000	130,000
20	63°	118,000	96,000
25	56°	88,900	74,500
30	49°	56,000	60,000
35	41°	39,000	49,600
40	30°	28,800	41,600
45	14°	21,900	33,300

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	39,000	46,000
40	62°	28,800	40,200
45	59°	21,900	33,300
50	55°	17,300	27,300
60	46°	10,800	18,800
70	36°	6,800	13,500
80	23°	4,000	9,700

62 ft. boom length manual retracted

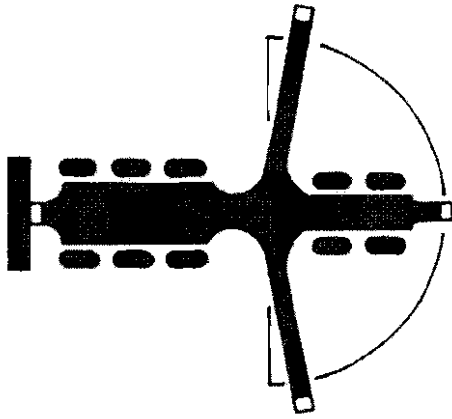
LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	76°	153,000	146,000
15	73°	141,000	130,000
20	68°	118,000	96,000
25	62°	88,900	74,500
30	57°	56,000	60,000
35	51°	39,000	49,600
40	44°	28,800	41,600
45	37°	21,900	33,300
50	28°	17,300	27,300

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	39,000	44,000
40	66°	28,800	39,000
45	62°	21,900	33,300
50	59°	17,300	27,300
60	52°	10,800	18,800
70	44°	6,800	13,500
80	35°	4,000	9,700
90	22°	2,000	6,800

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	108,000	96,000
25	67°	88,900	74,500
30	62°	56,000	60,000
35	58°	39,000	49,600
40	52°	28,800	41,600
45	47°	21,900	33,300
50	41°	17,300	27,300
60	26°	10,800	18,800



# 4

## LiftCraft

### SET UP CONDITIONS

1. **OUTRIGGERS:** In **MID** position, either retracted or extended.
2. **NO JIB.**
3. **WITH 10,000 LBS. FRONT COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **180° over the rear.**

### WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed.

### WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**



For all boom lengths from 72 ft. to 132 ft.

Rating chart for — **BOOM EXTENSION**

(Manual must be extended)

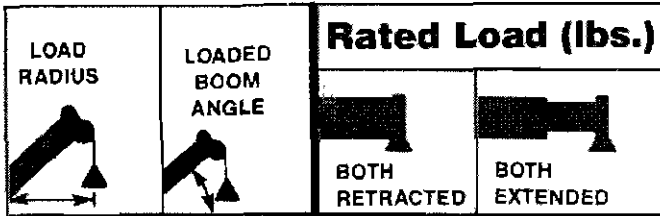


See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	31,800	33,500
45	70°	24,800	30,500
50	67°	19,900	28,000
60	62°	13,200	21,200
70	57°	9,000	15,700
80	52°	6,100	11,800
90	46°	4,000	9,000
100	39°	2,400	6,600
110	30°	—	4,800
120	19°	—	3,300

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	15,400	16,500
70	67°	11,100	15,000
80	64°	8,100	13,100
90	60°	5,800	10,800
100	55°	4,200	8,500
110	51°	2,800	6,600
120	46°	1,700	5,100
130	41°	—	3,900
140	35°	—	2,800
150	29°	—	2,000
160	20°	—	1,200



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	68°	200,000	150,000
15	63°	155,000	131,000
20	55°	118,000	95,600
25	45°	91,000	74,300
30	34°	68,200	59,700
35	16°	50,000	49,300

**CAUTION:**  
Boom must be fully retracted against stops.

52 ft. boom length manual retracted

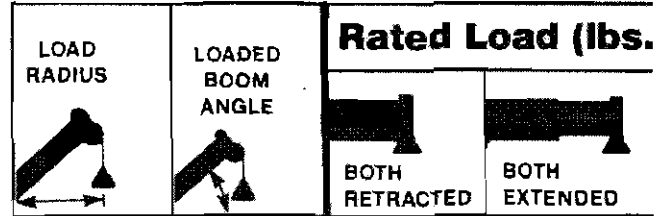
LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	72°	160,000	150,000
15	69°	155,000	131,000
20	63°	118,000	95,600
25	56°	91,000	74,300
30	49°	68,200	59,700
35	41°	50,000	49,300
40	30°	38,500	41,500
45	14°	30,600	35,300

62 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	76°	153,000	150,000
15	73°	141,000	131,000
20	68°	118,000	95,600
25	62°	91,000	74,300
30	57°	68,200	59,700
35	51°	50,000	49,300
40	44°	38,500	41,500
45	37°	30,600	35,300
50	28°	25,000	29,700

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	108,000	95,600
25	67°	91,000	74,300
30	62°	68,200	59,700
35	58°	50,000	49,300
40	52°	38,500	41,500
45	47°	30,600	35,300
50	41°	25,000	29,700
60	26°	17,000	20,600



82 ft. boom length manual retracted

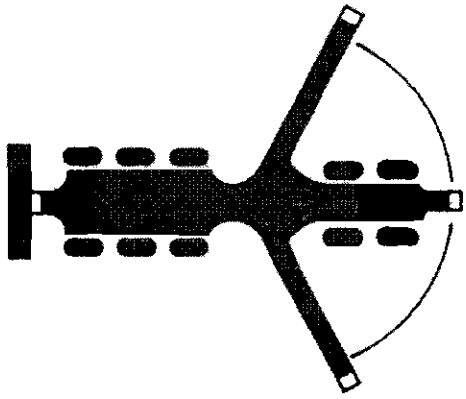
LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	75,500	74,300
30	66°	66,500	59,700
35	62°	50,000	49,300
40	58°	38,500	41,500
45	54°	30,600	35,300
50	49°	25,000	29,700
60	38°	17,000	20,600
70	24°	11,500	14,800

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	46,000	46,000
40	62°	38,500	40,200
45	59°	30,600	35,300
50	55°	25,000	29,700
60	46°	17,000	20,600
70	36°	11,500	14,800
80	23°	7,900	10,900

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	44,000	44,000
40	66°	38,500	39,000
45	62°	30,600	34,500
50	59°	25,000	29,700
60	52°	17,000	20,600
70	44°	11,500	14,800
80	35°	7,900	10,900
90	22°	5,300	8,000



# 5

## LiftCraft

### SET UP CONDITIONS

1. **OUTRIGGERS:** In **AFT** position, either retracted or extended.
2. **NO JIB.**
3. **WITH 10,000 LBS. FRONT COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **130° over-the-rear.**

### WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed.

### WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

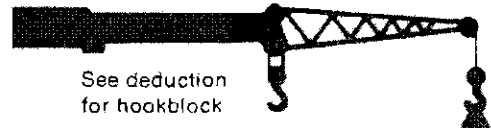


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	33,500	33,500
45	70°	30,500	30,500
50	67°	27,400	28,000
60	62°	19,500	23,000
70	57°	14,000	17,100
80	52°	10,100	13,000
90	46°	7,400	10,000
100	39°	5,300	7,500
110	30°	3,600	5,800
120	19°	2,300	4,300

Rating chart for — **BOOM EXTENSION**

(Manual must be extended)

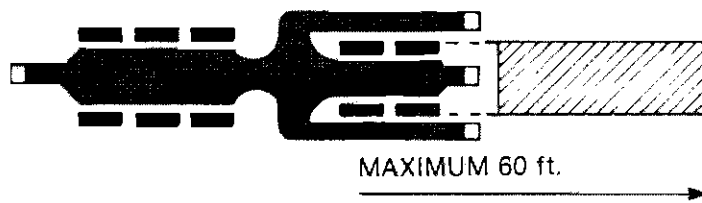


See deduction for hookblock



For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	16,500	16,500
70	67°	15,000	15,000
80	64°	12,100	13,100
90	60°	9,300	11,600
100	55°	7,100	9,400
110	51°	5,400	7,500
120	46°	4,000	6,000
130	41°	2,900	4,800
140	35°	2,000	3,700
150	29°	1,200	2,800
160	20°	—	2,000

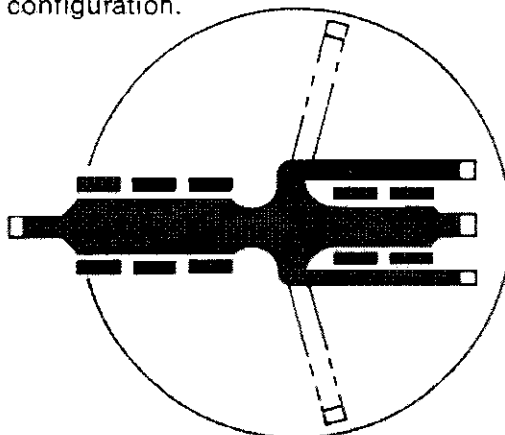
AREA OF OPERATION is directly over the rear with houselock engaged. See **warnings** before setting up for this configuration.

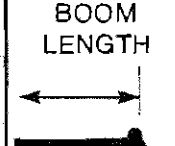
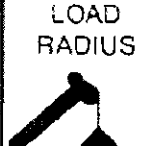


**CREEP:**  
0-1 mph

 <p>BOOM LENGTH</p>	 <p>LOAD RADIUS</p>	<p><b>Rated Load (lbs.)</b></p>
<p><b>DO NOT EXCEED</b> 42 ft.</p>	<p>15 ft. 20 ft. 25 ft. 30 ft.</p>	<p>— 10,500 10,500 10,500</p>
<p><b>DO NOT EXCEED</b> 52 ft.</p>	<p>35 ft. 40 ft. 45 ft.</p>	<p>7,000 5,000 4,000</p>
<p><b>DO NOT EXCEED</b> 62 ft.</p>	<p>50 ft. 55 ft.</p>	<p>3,500 3,000</p>

AREA OF OPERATION is 360°. See **warnings** before setting up for this configuration.



 <p>BOOM LENGTH</p>	 <p>LOAD RADIUS</p>	<p><b>Rated Load (lbs.)</b></p>
<p>42 ft.</p>	<p>15 ft.</p>	<p>2,200</p>

**WARNING:**

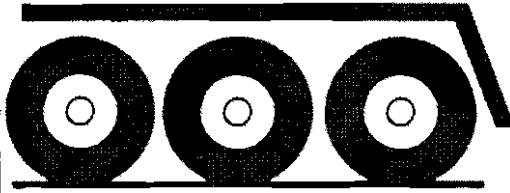
Do not exceed any of these maximums or tipping will occur.

**STATIC:** 0 mph

# LiftCraft

## SET UP AND AREAS OF OPERATION

1. **OUTRIGGERS:** In **Aft** or **Stored** position.
2. **LOAD MOMENT DEVICE** set to **ON RUBBER**.
3. **NO JIB.**
4. **NO COUNTERWEIGHT.**



# 6

AREA OF OPERATION is described with each chart.

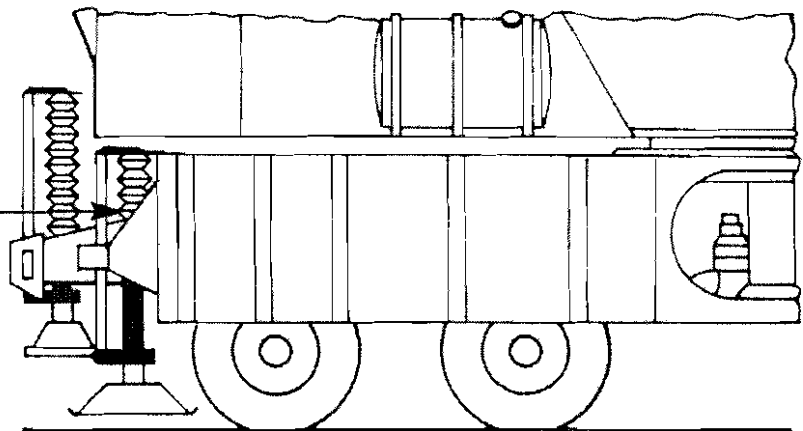
### WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse.

When transporting a load, the LiftCraft must be on a firm level surface with the manual boom section retracted and the extension stowed. The houselock must be engaged with the load centered over the rear and restrained from swinging.

When space is available, swing the outriggers to **AFT** position and **LOCK** in place.

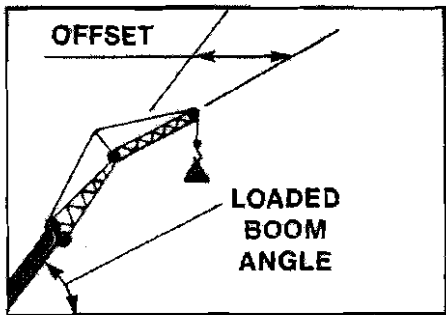

Before swinging boom from over-the-front to over-the-rear, lower the two floats on the swing-out outriggers so the vertical screws will fit under the tail swing of the upper. Failure to do so will cause damage to the vertical screws.



On Rubber Charts apply only to LiftCraft equipped with 14:00 x 24 (radial) tires.

TIRE INFLATION		
SIZE	STATIC: 0 mph	CREEP: 0-1 mph
14:00 x 24 (Radial)	100 psi	100 psi

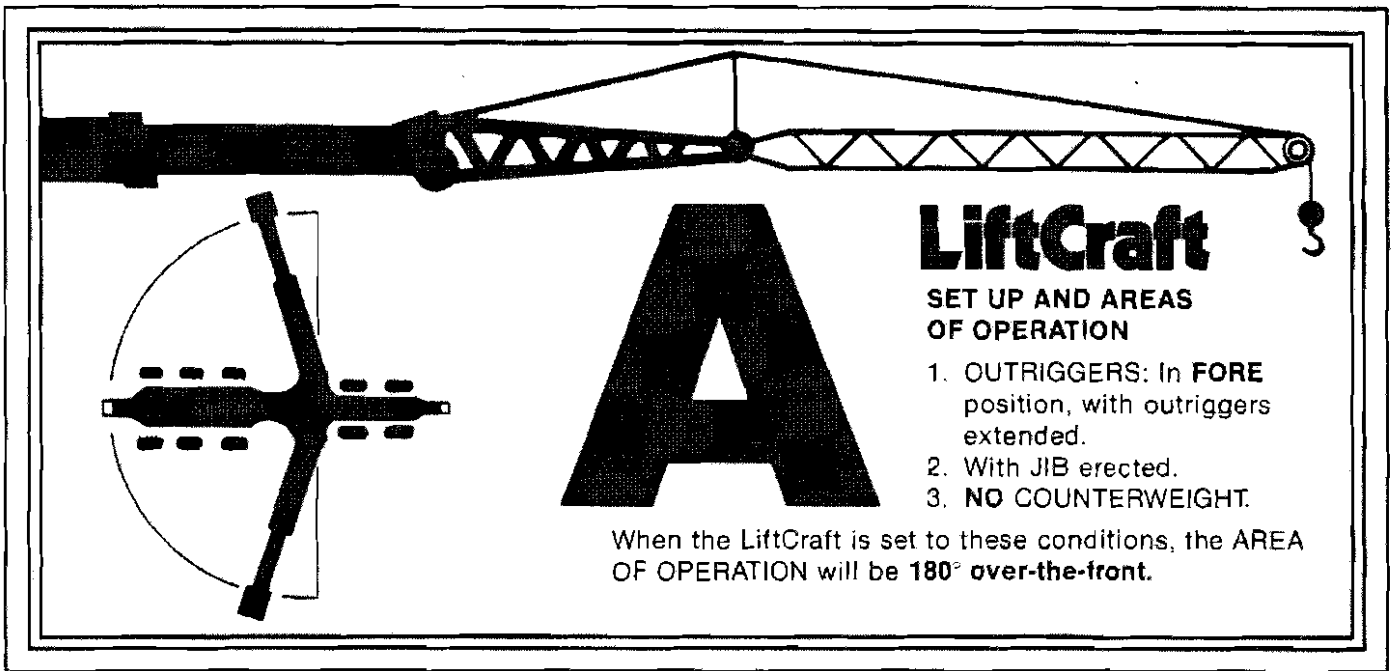
180 Chart A

	<b>Rated Loads (lbs.)</b> At 75% stability			 EXTENDED ONLY
	JIB LENGTH 30 ft.	JIB LENGTH 45 ft.	JIB LENGTH 60 ft.	

0° Offset	80°	14,000	9,000	6,000
	75°	12,000	8,400	5,400
	70°	10,000	7,800	4,800
	65°	8,500	7,000	4,300
	60°	6,400	5,700	3,900
	55°	4,600	4,100	3,500

12.5° Offset	80°	9,500	8,000	4,500
	75°	9,000	7,000	4,100
	70°	8,500	6,000	3,700
	65°	7,800	5,400	3,500
	60°	6,000	4,800	3,200
	55°	4,400	3,900	2,900

25° Offset	80°	7,500	5,100	3,400
	75°	7,100	4,500	3,000
	70°	6,800	4,100	2,600
	65°	6,400	3,700	2,400
	60°	5,900	3,500	2,200
	55°	4,300	3,300	2,100



**WARNING:**

Do not attempt to lift more than rated load at boom angles shown, or lift where no angle or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs.

This chart is only valid for the set-up conditions above. Do not use the information here unless the machine configuration matches the description. Outriggers must be in the extended position when using the jib.

For bucket ratings, deduct 20% from jib load ratings. Clamshell and magnet operations are not permitted with jib attached.

Do not lift with jib at boom angles below 55°. Loss of stability occurs rapidly.

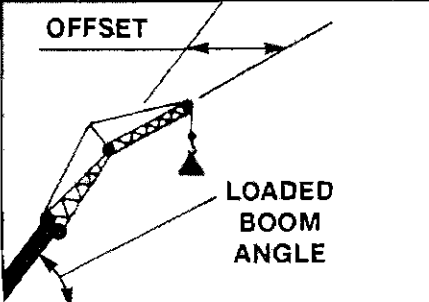

**WARNING:**

Below are the deductions for an empty hook on the boom point or extension. DO NOT USE THE LOAD MOMENT DEVICE for these configurations. Deductions are in pounds from the rated load.



HOOK TYPE DESCRIPTION	Boom Point			Extension		
	30 ft. JIB	45 ft. JIB	60 ft. JIB	30 ft. JIB	45 ft. JIB	60 ft. JIB
9.5 ton ball hook		300			400	
10 ton ball hook		400			600	
30 ton hook block		700			1,000	
55 ton hook block		1,000				
100 ton hook block		1,200				



	<b>Rated Loads (lbs.)</b> At 75% stability			 <b>EXTENDED ONLY</b>
	JIB LENGTH 30 ft.	JIB LENGTH 45 ft.	JIB LENGTH 60 ft.	

0° Offset	80°	14,000	9,000	6,000
	75°	12,000	8,400	5,400
	70°	10,000	7,800	4,800
	65°	6,500	5,800	4,300
	60°	4,300	3,800	3,200
	55°	2,800	2,500	2,000

12.5° Offset	80°	9,500	8,000	4,500
	75°	9,000	7,000	4,100
	70°	8,500	6,000	3,700
	65°	6,100	5,400	3,500
	60°	4,100	3,600	3,000
	55°	2,700	2,300	1,800

25° Offset	80°	7,500	5,100	3,400
	75°	7,100	4,500	3,000
	70°	6,800	4,100	2,600
	65°	5,800	3,700	2,400
	60°	4,000	3,400	2,200
	55°	2,600	2,200	1,700

**LiftCraft**

**SET UP AND AREAS OF OPERATION**

1. **OUTRIGGERS:** In **MID** position, with outriggers extended.
2. With **JIB** erected.
3. **NO COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **360°**.

**WARNING:**

Do not attempt to lift more than rated load at boom angles shown, or lift where no angle or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs.

This chart is only valid for the set-up conditions above. Do not use the information here unless the machine configuration matches the description. Outriggers must be in the extended position when using the jib.

For bucket ratings, deduct 20% from jib load ratings. Clamshell and magnet operations are not permitted with jib attached.

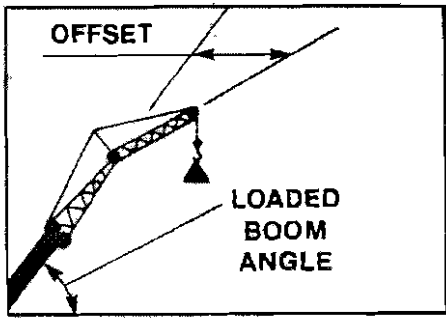
Do not lift with jib at boom angles below 55°. Loss of stability occurs rapidly.

**WARNING:**

Below are the deductions for an empty hook on the boom point or extension. **DO NOT USE THE LOAD MOMENT DEVICE** for these configurations. Deductions are in pounds from the rated load.



HOOK TYPE DESCRIPTION	Boom Point			Extension		
	30 ft. JIB	45 ft. JIB	60 ft. JIB	30 ft. JIB	45 ft. JIB	60 ft. JIB
9.5 ton ball hook		300			400	
10 ton ball hook		400			600	
30 ton hook block		700			1,000	
55 ton hook block		1,000				
100 ton hook block		1,200				



# Rated Loads (lbs.)

At 75% stability



JIB LENGTH	JIB LENGTH	JIB LENGTH
30 ft.	45 ft.	60 ft.

0° Offset	80°	14,000	9,000	6,000
	75°	12,000	8,400	5,400
	70°	10,000	7,800	4,800
	65°	8,500	7,000	4,300
	60°	7,200	6,000	3,900
	55°	5,400	4,800	3,600

12.5° Offset	80°	9,500	8,000	4,500
	75°	9,000	7,000	4,100
	70°	8,500	6,000	3,700
	65°	7,800	5,400	3,500
	60°	7,000	4,800	3,200
	55°	5,200	4,400	2,900

25° Offset	80°	7,500	5,100	3,400
	75°	7,100	4,500	3,000
	70°	6,800	4,100	2,600
	65°	6,400	3,700	2,400
	60°	6,000	3,500	2,200
	55°	5,000	3,300	2,100

**LiftCraft**  
**SET UP AND AREAS OF OPERATION**

1. **OUTRIGGERS:** In **AFT** position, with outriggers extended.
2. With **JIB** erected.
3. **WITH 10,000 lbs. FRONT COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **130° over-the-rear**.

**WARNING:**

Do not attempt to lift more than rated load at boom angles shown, or lift where no angle or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs.

This chart is only valid for the set-up conditions above. Do not use the information here unless the machine configuration matches the description. Outriggers must be in the extended position when using the jib.

For bucket ratings, deduct 20% from jib load ratings. Clamshell and magnet operations are not permitted with jib attached.

Do not lift with jib at boom angles below 55°. Loss of stability occurs rapidly.

**WARNING:**

Below are the deductions for an empty hook on the boom point or extension. **DO NOT USE THE LOAD MOMENT DEVICE** for these configurations. Deductions are in pounds from the rated load.



HOOK TYPE DESCRIPTION	Boom Point			Extension		
	30 ft. JIB	45 ft. JIB	60 ft. JIB	30 ft. JIB	45 ft. JIB	60 ft. JIB
9.5 ton ball hook		300			400	
10 ton ball hook		400			600	
30 ton hook block		700			1,000	
55 ton hook block		1,000				
100 ton hook block		1,200				

NON-COMMERCIALIZED RATING CHARTS

# **operating instructions**

## **(for non-calibrated outrigger positions)**

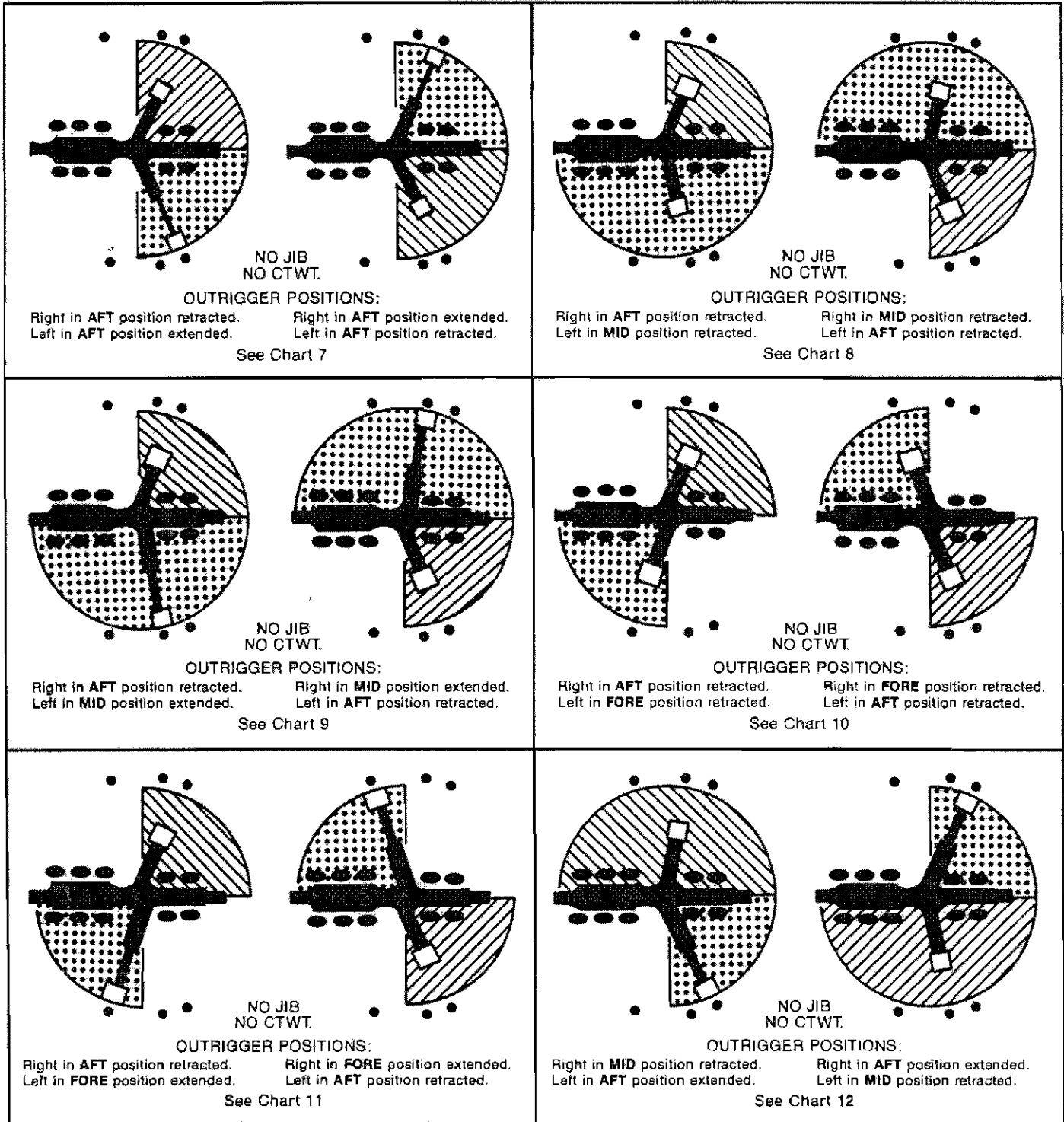
1. Set dial on left hand panel to the correct boom configuration.  
moment shut off is **NOT** operational. However, the anti-two-block shut off will operate normally.
2. Shut off key switch located under the right hand side of dash. The red light near the load moment meter is now on and indicates that the load
3. Press reset button on left hand panel. Boom angle, boom length and radius indicators are now operational and can be used.



# permitted areas of operation

## (for non-calibrated outrigger positions)

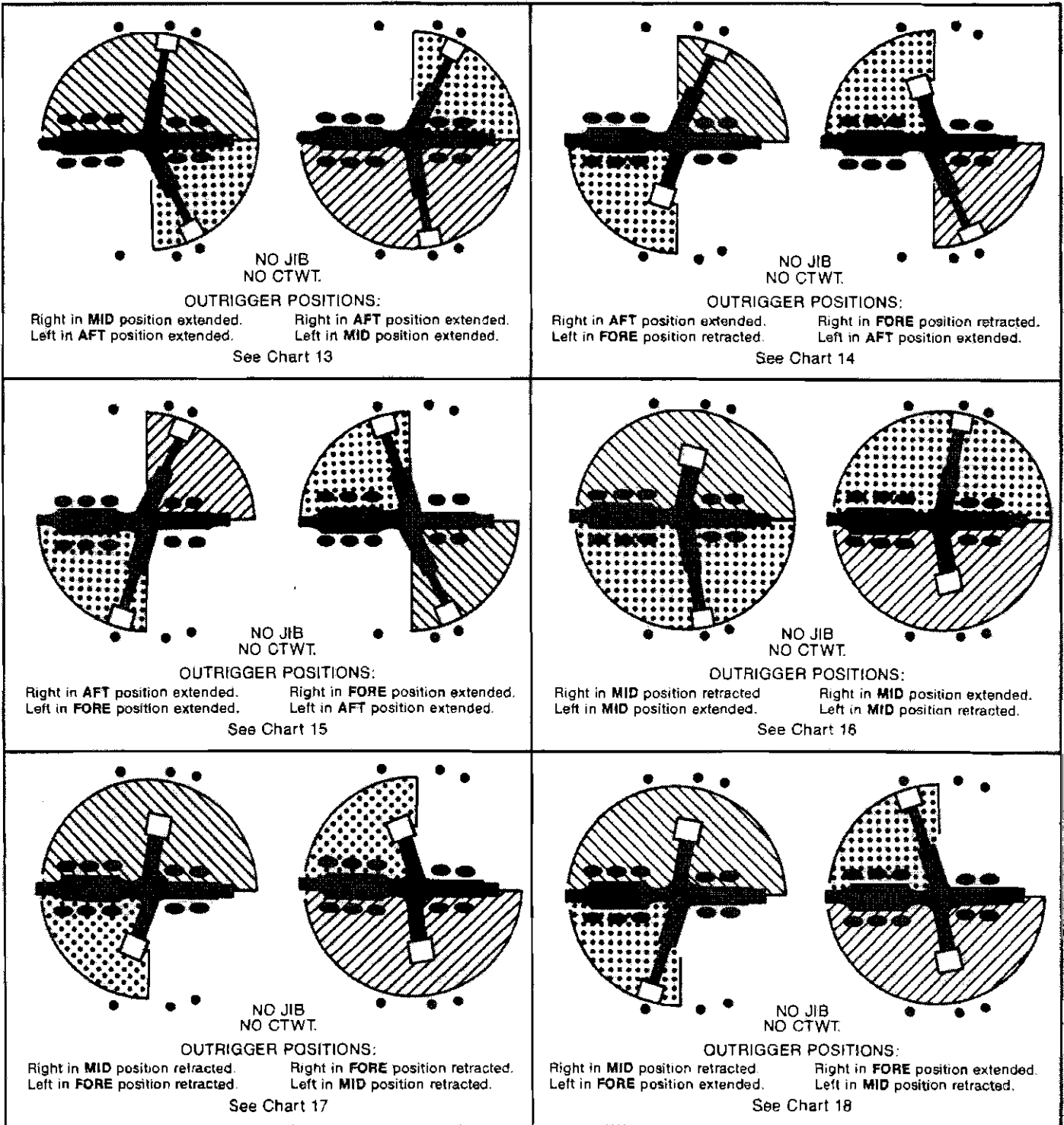
Areas of Operation: The permissible zone where a load can be lifted. The zone is altered by outrigger configuration, jib position, or counterweight position.



**Warning:** The load moment device is not calibrated for these outrigger configurations.

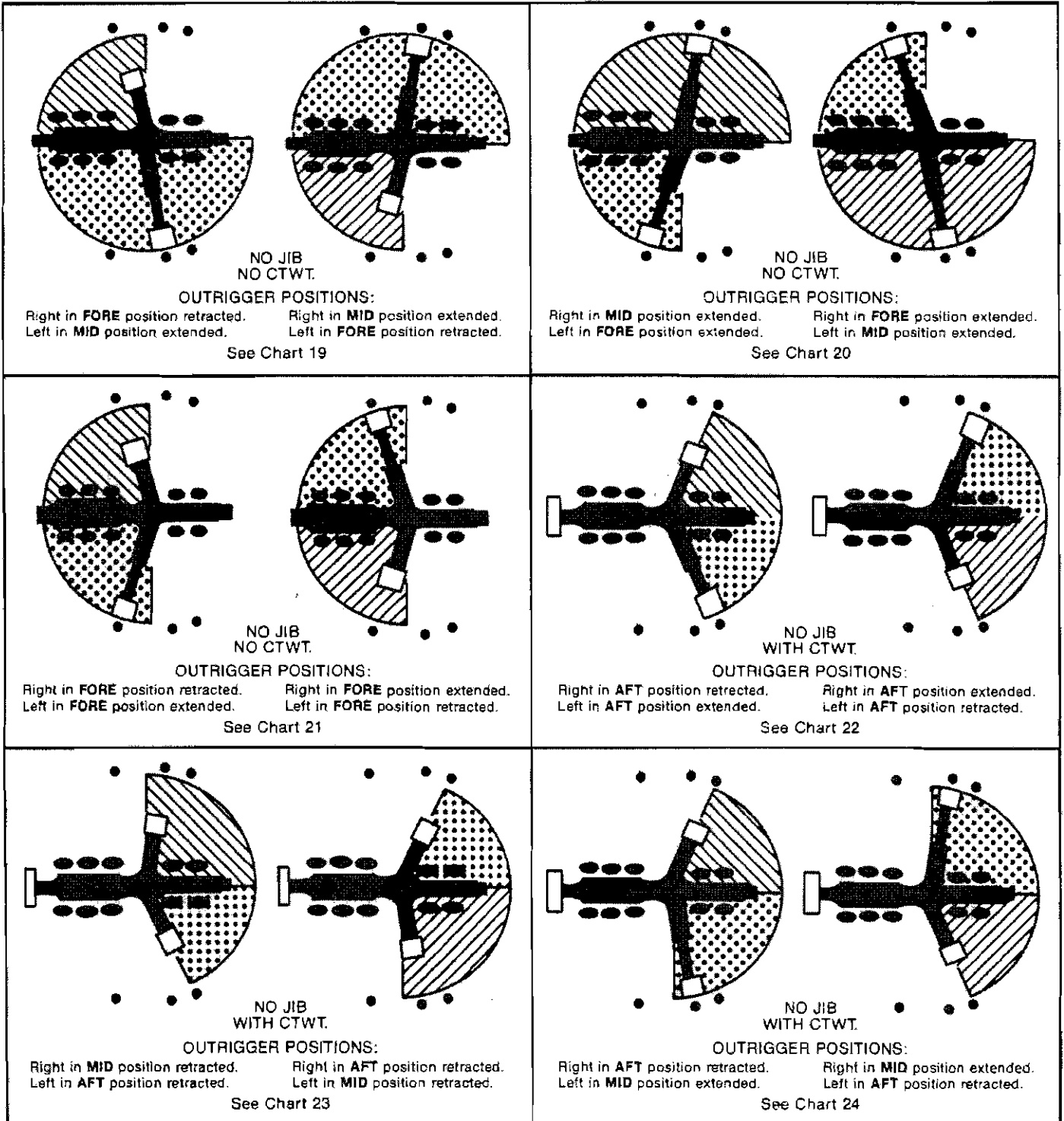


# non-calibrated outrigger positions



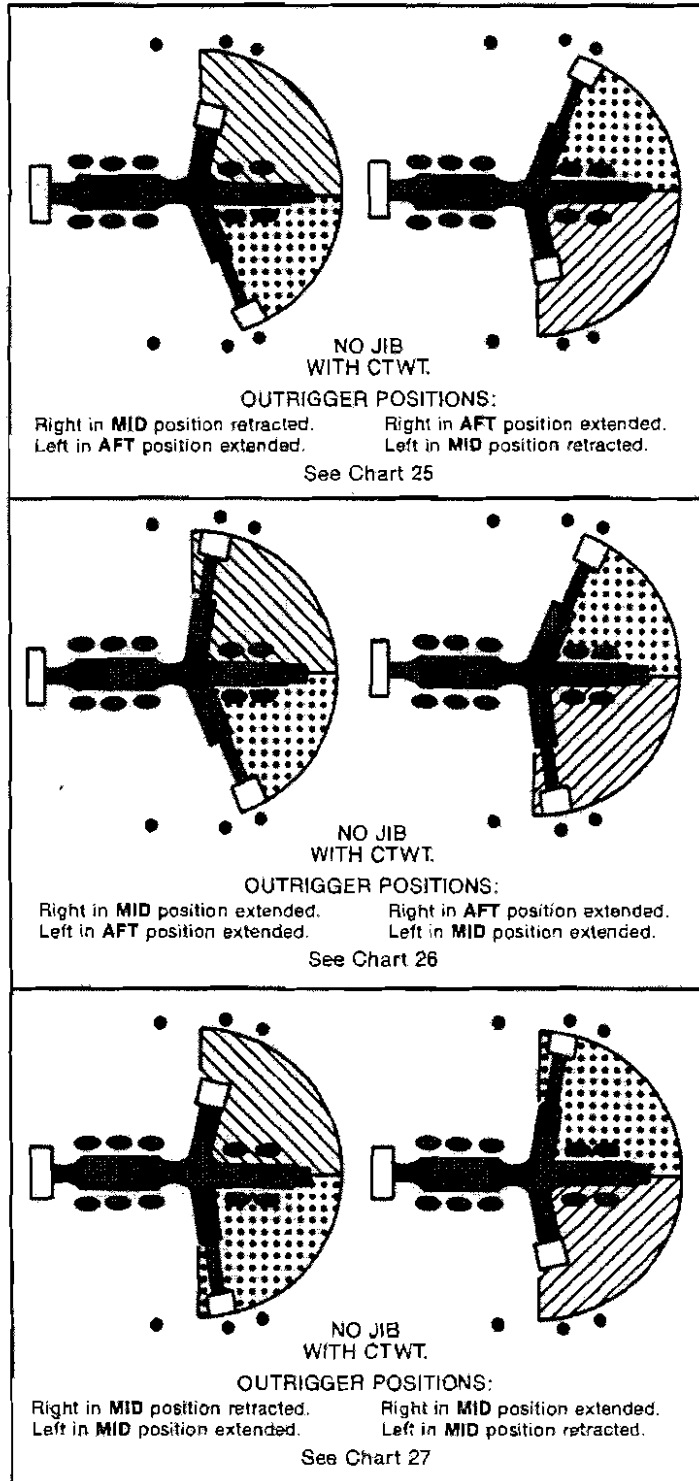
**Warning:** The load moment device is not calibrated for these outrigger configurations.

# non-calibrated outrigger positions



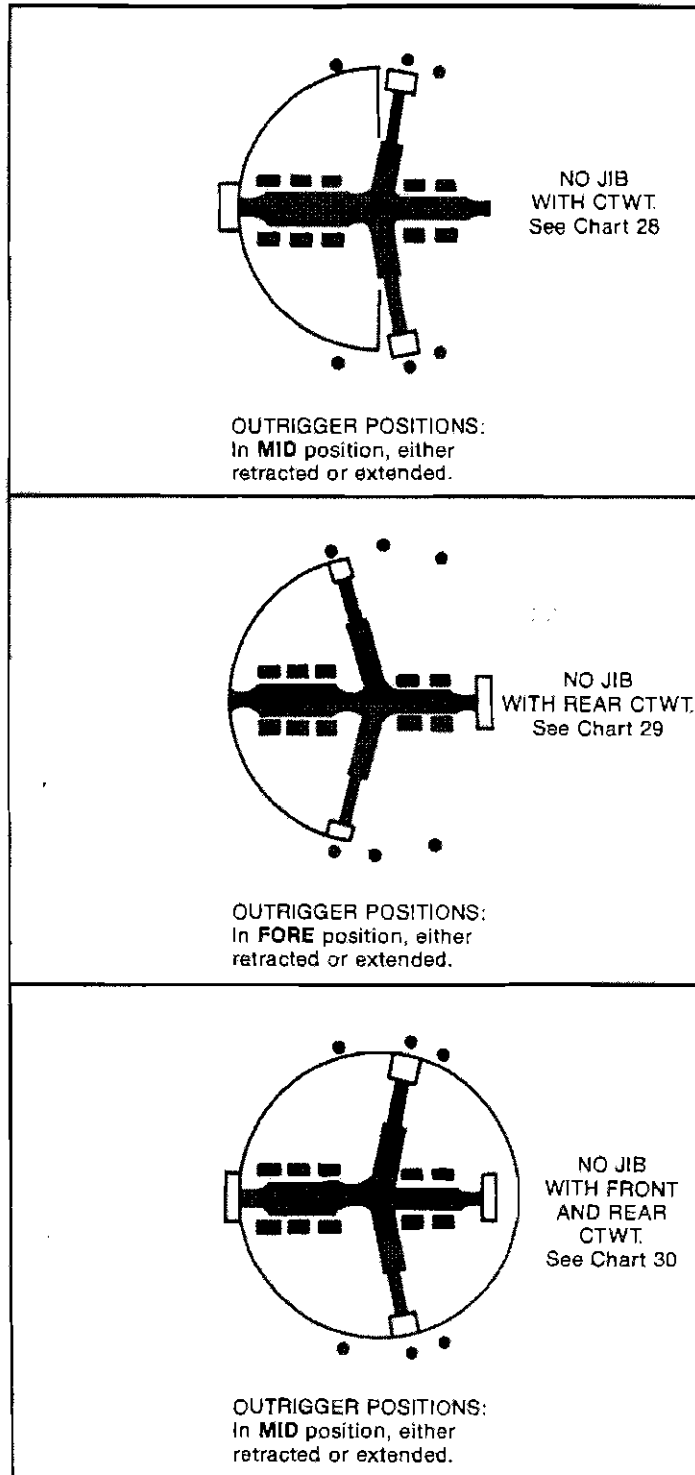
**Warning:** The load moment device is not calibrated for these outrigger configurations.

# non-calibrated outrigger positions

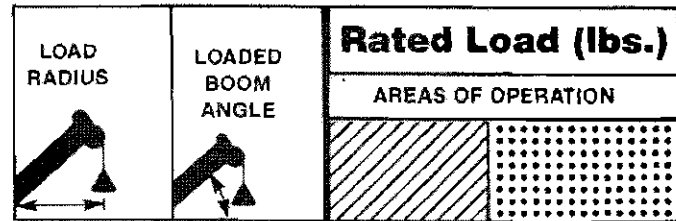
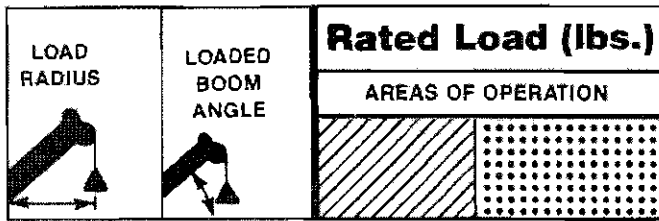


**Warning:** The load moment device is not calibrated for these outrigger configurations.

# non-calibrated outrigger positions



**Warning:** The load moment device is not calibrated for these outrigger configurations.



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	68°	150,000	150,000
15	63°	124,000	124,000
20	55°	89,800	89,800
25	45°	62,000	69,600
30	34°	40,600	55,800
35	16°	28,700	43,600

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	62,000	69,600
30	66°	40,600	55,800
35	62°	28,700	43,600
40	58°	21,300	32,600
45	54°	16,000	24,800
50	49°	12,500	19,600
60	38°	7,300	12,400
70	24°	4,000	8,000

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	72°	150,000	150,000
15	69°	124,000	124,000
20	63°	89,800	89,800
25	56°	62,000	69,600
30	49°	40,600	55,800
35	41°	28,700	43,600
40	30°	21,300	32,600
45	14°	16,000	24,800

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
20 ft.	76°	74,000	74,000
25	73°	62,000	63,000
30	69°	40,600	53,500
35	66°	28,700	43,600
40	62°	21,300	32,600
45	59°	16,000	24,800
50	55°	12,500	19,600
60	46°	7,300	12,400
70	36°	4,000	8,000
80	23°	1,700	5,000

62 ft. boom length manual retracted

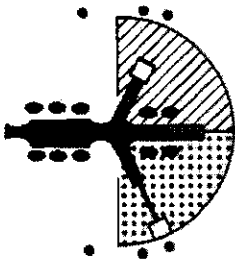
LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	76°	150,000	150,000
15	73°	124,000	124,000
20	68°	89,800	89,800
25	62°	62,000	69,600
30	57°	40,600	55,800
35	51°	28,700	43,600
40	44°	21,300	32,600
45	37°	16,000	24,600
50	28°	12,500	19,600

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	40,600	50,000
35	69°	28,700	43,600
40	66°	21,300	32,600
45	62°	16,000	24,800
50	59°	12,500	19,600
60	52°	7,300	12,400
70	44°	4,000	8,000
80	35°	1,700	5,000
90	22°	—	2,800

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	89,800	89,800
25	67°	62,000	69,600
30	62°	40,600	55,800
35	58°	28,700	43,600
40	52°	21,300	32,600
45	47°	16,000	24,800
50	41°	12,500	19,600
60	26°	7,300	12,400

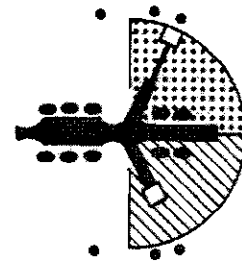


**OUTRIGGER POSITIONS:**  
 Right in **AFT** position retracted.  
 Left in **AFT** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
**NO JIB.**  
**NO COUNTERWEIGHT.**

# 7



**OUTRIGGER POSITIONS:**  
 Right in **AFT** position extended.  
 Left in **AFT** position retracted.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

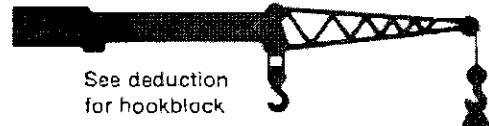
Rating chart for — **MANUAL EXTENDED**



For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	31,600	37,000
40	72°	24,000	33,500
45	70°	18,700	27,800
50	67°	14,900	22,200
60	62°	9,600	14,900
70	57°	6,200	10,300
80	52°	3,800	7,200
90	46°	2,000	4,800
100	39°	—	3,100

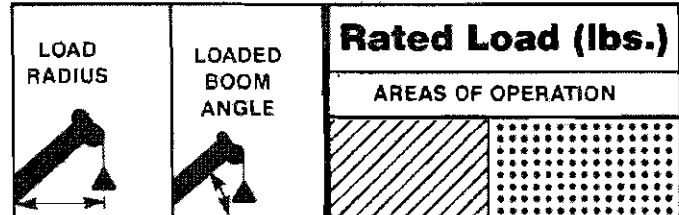
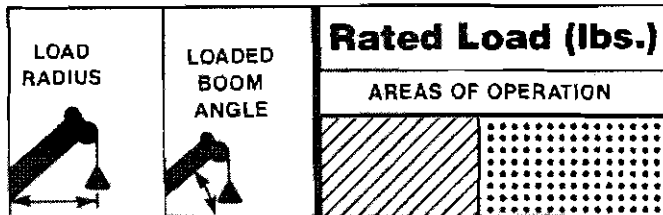
Rating chart for — **BOOM EXTENSION**  
 (Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	17,200	18,100
60	71°	11,700	16,500
70	67°	8,200	12,400
80	64°	5,700	9,100
90	60°	3,900	6,700
100	55°	2,400	4,900
110	51°	1,300	3,500
120	46°	—	2,300
130	41°	—	1,400



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	88°	160,000	160,000
15	63°	140,000	140,000
20	55°	110,000	110,000
25	45°	60,800	66,200
30	34°	39,700	43,000
35	16°	28,100	30,300

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	60,800	66,200
30	66°	39,700	43,000
35	62°	28,100	30,300
40	58°	20,800	22,400
45	54°	15,600	16,900
50	49°	12,100	13,200
60	38°	7,000	7,800
70	24°	3,800	4,400

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	72°	160,000	160,000
15	69°	140,000	140,000
20	63°	110,000	110,000
25	56°	60,800	66,200
30	49°	39,700	43,000
35	41°	28,100	30,300
40	30°	20,800	22,400
45	14°	15,600	16,900

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
20 ft.	76°	74,000	74,000
25	73°	60,800	63,000
30	69°	39,700	43,000
35	66°	28,100	30,300
40	62°	20,800	22,400
45	59°	15,600	16,900
50	55°	12,100	13,200
60	46°	7,000	7,800
70	36°	3,800	4,400
80	23°	—	2,000

62 ft. boom length manual retracted

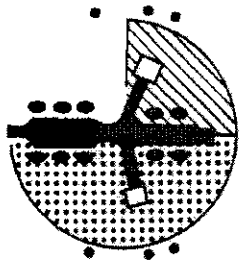
LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	76°	153,000	153,000
15	73°	140,000	140,000
20	68°	110,000	110,000
25	62°	60,800	66,200
30	57°	39,700	43,000
35	51°	28,100	30,300
40	44°	20,800	22,400
45	37°	15,600	16,900
50	28°	12,100	13,200

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	39,700	43,000
35	69°	28,100	30,300
40	66°	20,800	22,400
45	62°	15,600	16,900
50	59°	12,100	13,200
60	52°	7,000	7,800
70	44°	3,800	4,400
80	35°	—	2,000

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	108,000	108,000
25	67°	60,800	66,200
30	62°	39,700	43,000
35	58°	28,100	30,300
40	52°	20,800	22,400
45	47°	15,600	16,900
50	41°	12,100	13,200
60	26°	7,000	7,800

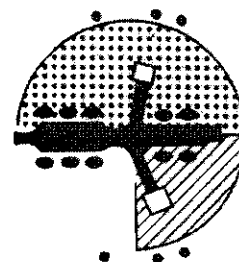


**OUTRIGGER POSITIONS:**  
 Right in **AFT** position retracted.  
 Left in **MID** position retracted.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
 NO JIB.  
 NO COUNTERWEIGHT.

# 8



**OUTRIGGER POSITIONS:**  
 Right in **MID** position retracted.  
 Left in **AFT** position retracted.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

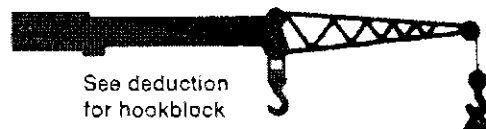
Rating chart for — MANUAL EXTENDED



For all boom lengths from 72 ft. to 132 ft.

Rating chart for — BOOM EXTENSION

(Manual must be extended)



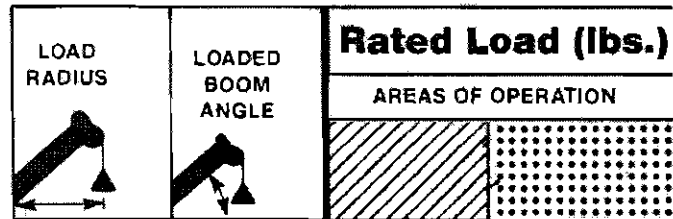
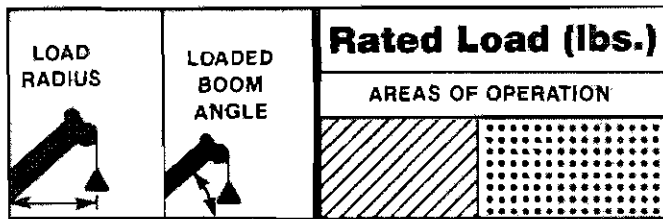
See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	31,000	33,300
40	72°	23,500	25,200
45	70°	18,300	19,700
50	67°	14,500	15,600
60	62°	9,300	10,200
70	57°	6,000	6,600
80	52°	3,600	4,100
90	46°	—	2,300

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	16,800	18,000
60	71°	11,400	12,300
70	67°	7,900	8,600
80	64°	5,500	6,000
90	60°	3,700	4,100
100	55°	2,300	2,700
110	51°	1,100	1,500





42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	68°	130,000	130,000
15	63°	113,000	113,000
20	55°	96,000	96,000
25	45°	61,900	74,500
30	34°	40,500	54,900
35	16°	28,700	39,300

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	61,900	74,500
30	66°	40,500	54,900
35	62°	28,700	39,300
40	58°	21,200	29,600
45	54°	16,000	22,900
50	49°	12,400	18,300
60	38°	7,300	11,800
70	24°	4,000	7,600

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	72°	130,000	130,000
15	69°	113,000	113,000
20	63°	96,000	96,000
25	56°	61,900	74,500
30	49°	40,500	54,900
35	41°	28,700	39,300
40	30°	21,200	29,600
45	14°	16,000	22,900

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
20 ft.	76°	74,000	74,000
25	73°	61,900	63,000
30	69°	40,500	53,500
35	66°	28,700	39,300
40	62°	21,200	29,600
45	59°	16,000	22,900
50	55°	12,400	18,300
60	46°	7,300	11,800
70	36°	4,000	7,600
80	23°	—	4,800

62 ft. boom length manual retracted

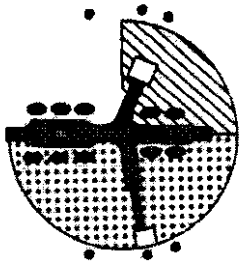
LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	76°	130,000	130,000
15	73°	113,000	113,000
20	68°	96,000	96,000
25	62°	61,900	74,500
30	57°	40,500	54,900
35	51°	28,700	39,300
40	44°	21,200	29,600
45	37°	16,000	22,900
50	28°	12,400	18,300

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	40,500	50,000
35	69°	28,700	39,300
40	66°	21,200	29,600
45	62°	16,000	22,900
50	59°	12,400	18,300
60	52°	7,300	11,800
70	44°	4,000	7,600
80	35°	—	4,800
90	22°	—	2,700

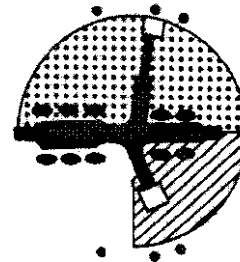
72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	78°	130,000	130,000
15	75°	113,000	113,000
20	71°	96,000	96,000
25	67°	61,900	74,500
30	62°	40,500	54,900
35	58°	28,700	39,300
40	52°	21,200	29,600
45	47°	16,000	22,900
50	41°	12,400	18,300
60	28°	7,300	11,800



# LiftCraft

SET UP AND AREAS  
OF OPERATION  
NO JIB.  
NO COUNTERWEIGHT.



**OUTRIGGER POSITIONS:**

Right in **AFT** position  
retracted.  
Left in **MID** position  
extended.

# 9

**OUTRIGGER POSITIONS:**

Right in **MID** position  
extended.  
Left in **AFT** position  
retracted.

**WARNING:**

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

**WARNING:**

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — MANUAL EXTENDED

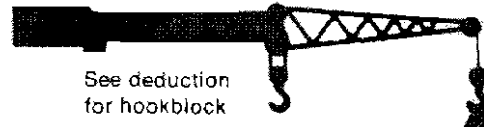


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	31,600	37,000
40	72°	23,900	32,400
45	70°	18,700	25,600
50	67°	14,800	20,700
60	62°	9,600	14,100
70	57°	6,200	9,900
80	52°	3,800	6,900
90	46°	2,000	4,700
100	39°	—	3,000
110	30°	—	—

Rating chart for — BOOM EXTENSION

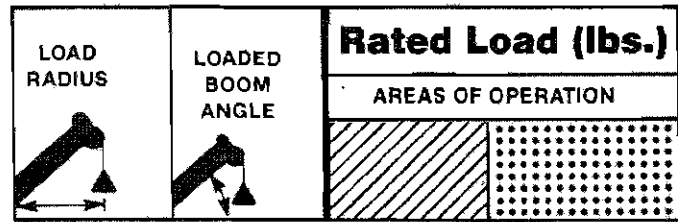
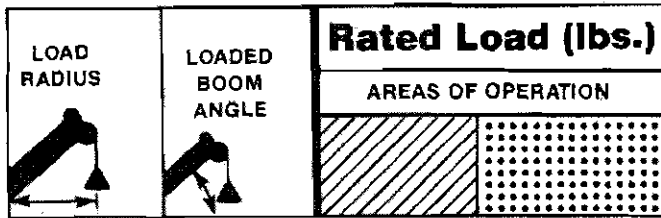
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	17,100	18,100
60	71°	11,700	16,300
70	67°	8,200	11,900
80	64°	5,700	8,800
90	60°	3,800	6,500
100	55°	2,400	4,800
110	51°	1,300	3,400
120	46°	—	2,300
130	41°	—	1,300



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Hatched Area	Dotted Area
12 ft.	68°	160,000	160,000
15	63°	135,000	135,000
20	55°	100,000	100,000
25	45°	60,300	69,300
30	34°	39,400	46,300
35	16°	27,800	33,400

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Hatched Area	Dotted Area
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	60,300	69,300
30	66°	39,400	46,300
35	62°	27,800	33,400
40	58°	20,500	25,200
45	54°	15,400	19,400
50	49°	11,900	15,400
60	38°	6,900	9,700
70	24°	3,600	6,000

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Hatched Area	Dotted Area
12 ft.	72°	160,000	160,000
15	69°	135,000	135,000
20	63°	100,000	100,000
25	56°	60,300	69,300
30	49°	39,400	46,300
35	41°	27,800	33,400
40	30°	20,500	25,200
45	14°	15,400	19,400

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Hatched Area	Dotted Area
20 ft.	76°	74,000	74,000
25	73°	60,300	63,000
30	69°	39,400	46,300
35	66°	27,800	33,400
40	62°	20,500	25,200
45	59°	15,400	19,400
50	55°	11,900	15,400
60	46°	6,900	9,700
70	36°	3,600	6,000
80	23°	—	3,400

62 ft. boom length manual retracted

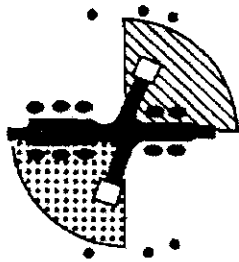
LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Hatched Area	Dotted Area
12 ft.	76°	153,000	153,000
15	73°	135,000	135,000
20	68°	100,000	100,000
25	62°	60,300	69,300
30	57°	39,400	46,300
35	51°	27,800	33,400
40	44°	20,500	25,200
45	37°	15,400	19,400
50	28°	11,900	15,400

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Hatched Area	Dotted Area
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	39,400	46,300
35	69°	27,800	33,400
40	66°	20,500	25,200
45	62°	15,400	19,400
50	59°	11,900	15,400
60	52°	6,900	9,700
70	44°	3,600	6,000
80	35°	—	3,400

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Hatched Area	Dotted Area
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	100,000	100,000
25	67°	60,300	69,300
30	62°	39,400	46,300
35	58°	27,800	33,400
40	52°	20,500	25,200
45	47°	15,400	19,400
50	41°	11,900	15,400
60	26°	6,900	9,700

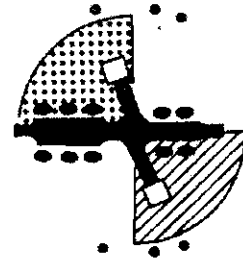


**OUTRIGGER POSITIONS:**  
 Right in **AFT** position retracted.  
 Left in **FORE** position retracted.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
**NO JIB.**  
**NO COUNTERWEIGHT.**

# 10



**OUTRIGGER POSITIONS:**  
 Right in **FORE** position retracted.  
 Left in **AFT** position retracted.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**



For all boom lengths from 72 ft. to 132 ft.

Rating chart for — **BOOM EXTENSION**

(Manual must be extended)

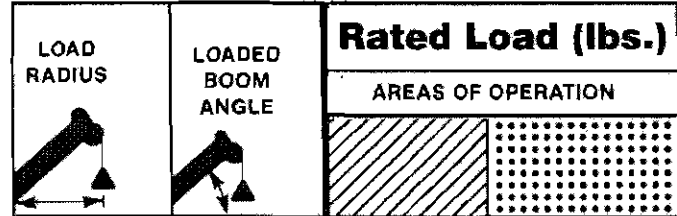
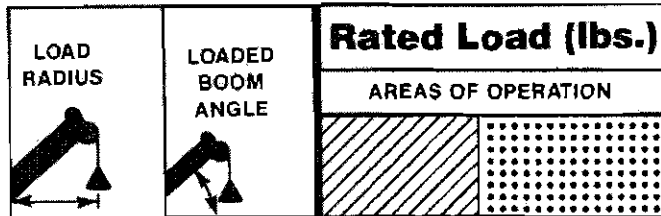


See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	30,700	36,200
40	72°	23,200	27,900
45	70°	18,100	22,100
50	67°	14,300	17,800
60	62°	9,200	12,000
70	57°	5,900	8,200
80	52°	3,500	5,500
90	46°	—	3,500
100	39°	—	2,000

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,600	18,100
60	71°	11,300	14,100
70	67°	7,800	10,200
80	64°	5,400	7,400
90	60°	3,600	5,300
100	55°	2,200	3,700
110	51°	1,100	2,500
120	46°	—	1,500



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	68°	140,000	140,000
15	63°	120,000	120,000
20	55°	93,800	93,800
25	45°	61,100	72,500
30	34°	39,900	58,300
35	16°	28,200	48,100

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	61,100	72,500
30	66°	39,900	58,300
35	62°	28,200	48,100
40	58°	20,900	37,300
45	54°	15,700	28,900
50	49°	12,100	23,200
60	38°	7,100	15,400
70	24°	3,800	10,400

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	72°	140,000	140,000
15	69°	120,000	120,000
20	63°	93,800	93,800
25	56°	61,100	72,500
30	49°	39,900	58,300
35	41°	28,200	48,100
40	30°	20,900	37,300
45	14°	15,700	28,900

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
20 ft.	76°	74,000	74,000
25	73°	61,100	63,000
30	69°	39,900	53,500
35	66°	28,200	46,000
40	62°	20,900	37,300
45	59°	15,700	28,900
50	55°	12,100	23,200
60	46°	7,100	15,400
70	36°	3,800	10,400
80	23°	—	7,100

62 ft. boom length manual retracted

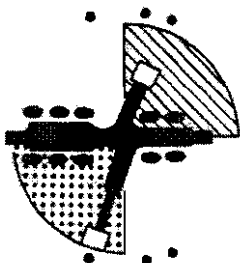
LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	76°	140,000	140,000
15	73°	120,000	120,000
20	68°	93,800	93,800
25	62°	61,100	72,500
30	57°	39,900	58,300
35	51°	28,200	48,100
40	44°	20,900	37,300
45	37°	15,700	28,900
50	28°	12,100	23,200

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	39,900	50,000
35	69°	28,200	44,000
40	66°	20,900	37,300
45	62°	15,700	28,900
50	59°	12,100	23,200
60	52°	7,100	15,400
70	44°	3,800	10,400
80	35°	—	7,100
90	22°	—	4,600

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	78°	136,000	136,000
15	75°	120,000	120,000
20	71°	93,800	93,800
25	67°	61,100	72,500
30	62°	39,900	58,300
35	58°	28,200	48,100
40	52°	20,900	37,300
45	47°	15,700	28,900
50	41°	12,100	23,200
60	26°	7,100	15,400



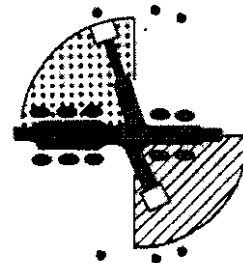
**OUTRIGGER POSITIONS:**  
 Right in **AFT** position retracted.  
 Left in **FORE** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**

**NO JIB.  
 NO COUNTERWEIGHT.**

# 11



**OUTRIGGER POSITIONS:**  
 Right in **FORE** position extended.  
 Left in **AFT** position retracted.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

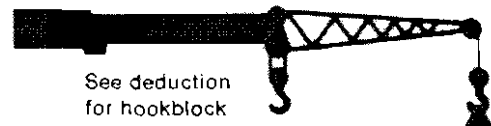
Rating chart for — **MANUAL EXTENDED**



For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	31,100	37,000
40	72°	23,600	33,500
45	70°	18,400	30,500
50	67°	14,600	25,800
60	62°	9,400	17,800
70	57°	6,000	12,700
80	52°	3,600	9,200
90	46°	1,900	6,700
100	39°	—	4,700
110	30°	—	3,200
120	19°	—	1,900

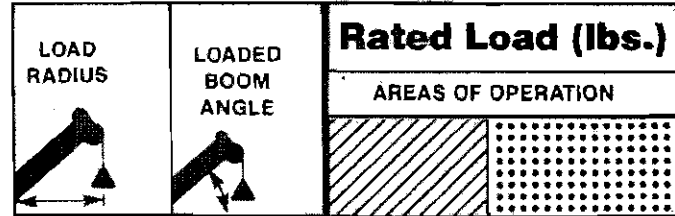
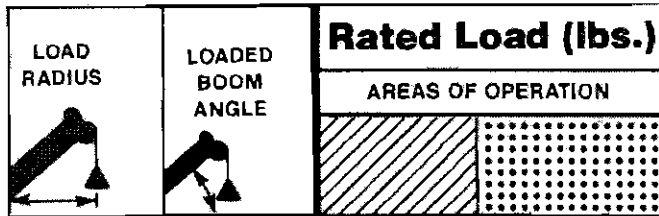
Rating chart for — **BOOM EXTENSION**  
 (Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	16,900	18,100
60	71°	11,500	16,500
70	67°	8,000	14,800
80	64°	5,500	11,200
90	60°	3,700	8,600
100	55°	2,300	6,500
110	51°	1,200	4,900
120	46°	—	3,600
130	41°	—	2,600
140	35°	—	1,700



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
12 ft.	68°	150,000	150,000
15	63°	124,000	124,000
20	55°	89,800	89,800
25	45°	66,400	69,600
30	34°	43,800	55,800
35	16°	30,900	43,900

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	66,400	69,600
30	66°	43,800	55,800
35	62°	30,900	43,900
40	58°	22,900	32,500
45	54°	17,300	24,700
50	49°	13,500	19,500
60	36°	8,100	12,400
70	24°	4,600	7,900

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
12 ft.	72°	150,000	150,000
15	69°	124,000	124,000
20	63°	89,800	89,800
25	56°	66,400	69,600
30	49°	43,800	55,800
35	41°	30,900	43,900
40	30°	22,900	32,500
45	14°	17,300	24,700

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	43,800	55,800
35	66°	30,900	43,900
40	62°	22,900	32,700
45	59°	17,300	24,700
50	55°	13,500	19,500
60	46°	8,100	12,400
70	36°	4,600	7,900
80	23°	2,200	4,900

62 ft. boom length manual retracted

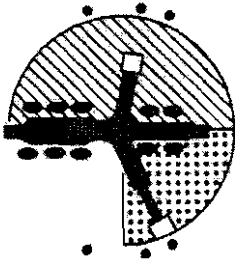
LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
12 ft.	78°	150,000	150,000
15	73°	124,000	124,000
20	68°	89,800	89,800
25	62°	66,400	69,600
30	57°	43,800	55,800
35	51°	30,900	43,900
40	44°	22,900	32,500
45	37°	17,300	24,700
50	28°	13,500	19,500

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	43,800	50,000
35	69°	30,900	43,900
40	66°	22,900	32,500
45	62°	17,300	24,700
50	59°	13,500	19,500
60	52°	8,100	12,400
70	44°	4,600	7,900
80	35°	2,200	4,900
90	22°	—	2,800

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	89,800	89,800
25	67°	66,400	69,600
30	62°	43,800	55,800
35	58°	30,900	43,900
40	52°	22,900	32,500
45	47°	17,300	24,700
50	41°	13,500	19,500
60	26°	8,100	12,400

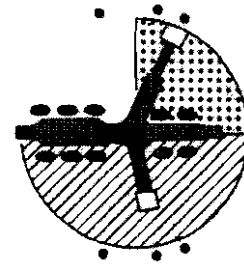


**OUTRIGGER POSITIONS:**  
 Right in **MID** position  
 retracted.  
 Left in **AFT** position  
 extended.

# LiftCraft

**SET UP AND AREAS  
 OF OPERATION**  
 NO JIB.  
 NO COUNTERWEIGHT.

# 12



**OUTRIGGER POSITIONS:**  
 Right in **AFT** position  
 extended.  
 Left in **MID** position  
 retracted.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — MANUAL EXTENDED

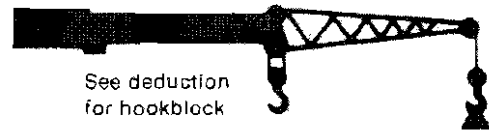


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	33,900	37,000
40	72°	25,700	33,500
45	70°	20,000	27,700
50	67°	16,000	22,200
60	62°	10,400	14,900
70	57°	6,800	10,300
80	52°	4,300	7,100
90	46°	2,500	4,800
100	39°	—	3,000

Rating chart for — BOOM EXTENSION

(Manual must be extended)

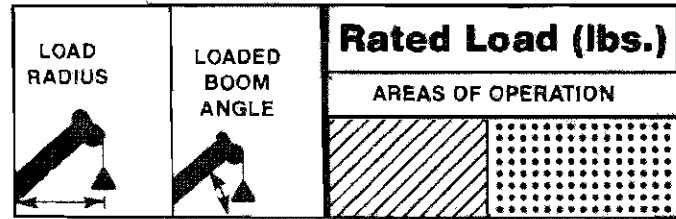
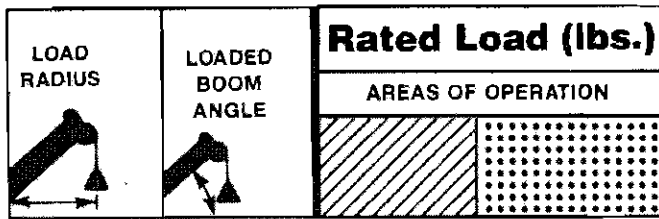


See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	12,500	16,500
70	67°	8,800	12,400
80	64°	6,200	9,100
90	60°	4,300	6,700
100	55°	2,800	4,900
110	51°	1,600	3,500
120	46°	—	2,300
130	41°	—	1,300





42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
12 ft.	68°	130,000	130,000
15	63°	113,000	113,000
20	55°	89,800	89,800
25	45°	69,600	69,600
30	34°	54,900	55,800
35	16°	39,200	43,900

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	69,600	69,600
30	66°	54,900	55,800
35	62°	39,200	43,900
40	58°	29,600	33,000
45	54°	22,900	25,200
50	49°	18,300	19,900
60	38°	11,800	12,700
70	24°	7,600	8,200

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
12 ft.	72°	130,000	130,000
15	69°	113,000	113,000
20	63°	89,800	89,800
25	56°	69,600	69,600
30	49°	54,900	55,800
35	41°	39,200	43,900
40	30°	29,600	33,000
45	14°	22,900	25,200

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	39,200	43,900
40	62°	29,600	33,000
45	59°	22,900	25,200
50	55°	18,300	19,900
60	46°	11,800	12,700
70	36°	7,600	8,200
80	23°	4,800	5,100

62 ft. boom length manual retracted

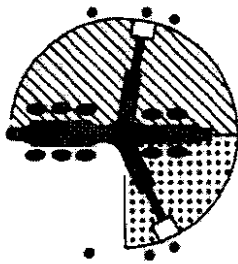
LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
12 ft.	76°	130,000	130,000
15	73°	113,000	113,000
20	68°	89,800	89,800
25	62°	69,600	69,600
30	57°	54,900	55,800
35	51°	39,200	43,900
40	44°	29,600	33,000
45	37°	22,900	25,200
50	28°	18,300	19,900

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	39,200	43,900
40	66°	29,600	33,000
45	62°	22,900	25,200
50	59°	18,300	19,900
60	52°	11,800	12,700
70	44°	7,600	8,200
80	35°	4,800	5,100
90	22°	2,700	2,900

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
12 ft.	78°	130,000	130,000
15	75°	113,000	113,000
20	71°	89,800	89,800
25	67°	69,600	69,600
30	62°	54,900	55,800
35	58°	39,200	43,900
40	52°	29,600	33,000
45	47°	22,900	25,200
50	41°	18,300	19,900
60	26°	11,800	12,700

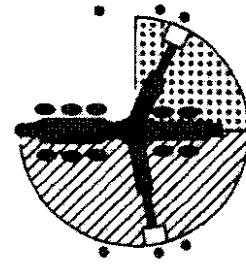


**OUTRIGGER POSITIONS:**  
 Right in **MID** position extended.  
 Left in **AFT** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
**NO JIB.**  
**NO COUNTERWEIGHT.**

# 13



**OUTRIGGER POSITIONS:**  
 Right in **AFT** position extended.  
 Left in **MID** position extended.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

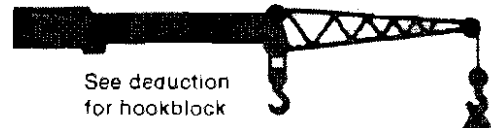
Rating chart for -- MANUAL EXTENDED



For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	32,400	33,500
45	70°	25,800	28,200
50	67°	20,700	22,600
60	62°	14,100	15,200
70	57°	9,900	10,500
80	52°	6,900	7,300
90	46°	4,700	5,000
100	39°	3,000	3,200

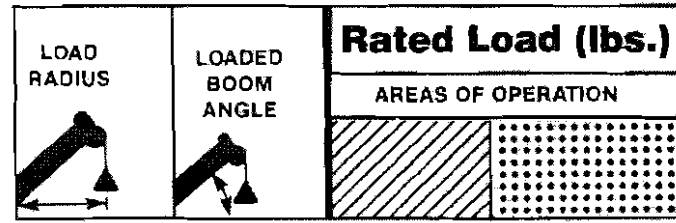
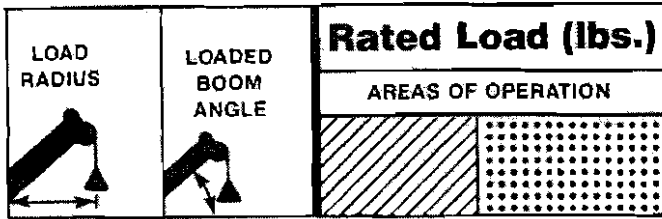
Rating chart for -- BOOM EXTENSION  
 (Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	16,300	16,500
70	67°	11,900	12,600
80	64°	8,800	9,300
90	60°	6,500	6,900
100	55°	4,800	5,000
110	51°	3,400	3,600
120	46°	2,300	2,400
130	41°	1,300	1,400



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
12 ft.	68°	120,000	150,000
15	63°	110,000	125,000
20	55°	89,800	100,000
25	45°	69,600	69,700
30	34°	55,800	46,600
35	16°	43,800	33,600

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	69,600	69,700
30	66°	55,800	46,600
35	62°	43,800	33,600
40	58°	32,200	25,400
45	54°	24,500	19,600
50	49°	19,300	15,600
60	38°	12,200	9,800
70	24°	7,800	6,100

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
12 ft.	72°	120,000	150,000
15	69°	110,000	125,000
20	63°	89,800	100,000
25	56°	69,600	69,700
30	49°	55,800	46,600
35	41°	43,800	33,600
40	30°	32,200	25,400
45	14°	24,500	19,600

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	46,600
35	66°	43,800	33,600
40	62°	32,200	25,400
45	59°	24,500	19,600
50	55°	19,300	15,600
60	46°	12,200	9,800
70	36°	7,800	6,100
80	23°	4,800	3,500

62 ft. boom length manual retracted

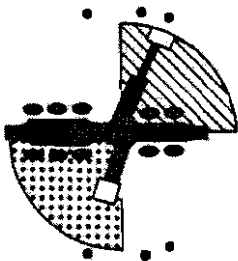
LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
12 ft.	76°	120,000	150,000
15	73°	110,000	125,000
20	68°	89,800	100,000
25	62°	69,600	69,700
30	57°	55,800	46,600
35	51°	43,800	33,600
40	44°	32,200	25,400
45	37°	24,500	19,600
50	28°	19,300	15,600

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	46,600
35	69°	43,800	33,600
40	66°	32,200	25,400
45	62°	24,500	19,600
50	59°	19,300	15,600
60	52°	12,200	9,800
70	44°	7,800	6,100
80	35°	4,800	3,500
90	22°	2,700	—

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
12 ft.	78°	120,000	136,000
15	75°	110,000	124,000
20	71°	89,800	100,000
25	67°	69,600	69,700
30	62°	55,800	46,600
35	58°	43,800	33,600
40	52°	32,200	25,400
45	47°	24,500	19,600
50	41°	19,300	15,600
60	26°	12,200	9,800

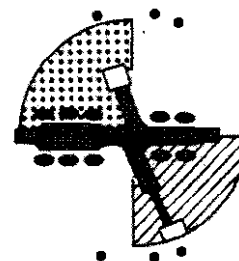


**OUTRIGGER POSITIONS:**  
 Right in **AFT** position extended.  
 Left in **FORE** position retracted.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
**NO JIB.**  
**NO COUNTERWEIGHT.**

# 14



**OUTRIGGER POSITIONS:**  
 Right in **FORE** position retracted.  
 Left in **AFT** position extended.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

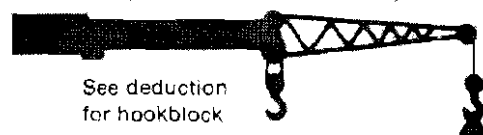
Rating chart for — MANUAL EXTENDED



For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	36,500
40	72°	33,500	28,100
45	70°	27,500	22,300
50	67°	22,000	18,000
60	62°	14,700	12,100
70	57°	10,100	8,300
80	52°	7,000	5,600
90	46°	4,700	3,600
100	39°	3,000	2,100

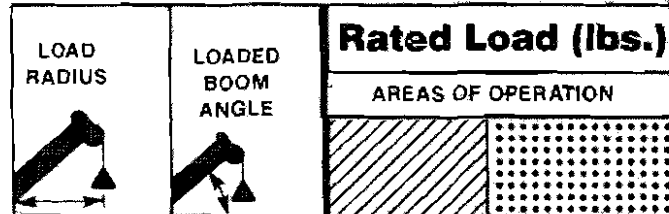
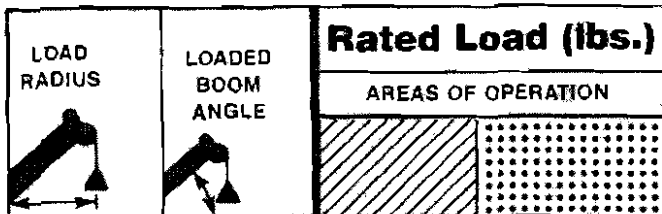
Rating chart for — BOOM EXTENSION  
 (Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	16,500	14,200
70	67°	12,200	10,300
80	64°	9,000	7,500
90	60°	6,600	5,400
100	55°	4,800	3,800
110	51°	3,400	2,500
120	46°	2,200	1,500
130	41°	1,300	—



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
12 ft.	68°	120,000	140,000
15	63°	110,000	120,000
20	55°	89,800	93,800
25	45°	69,600	72,500
30	34°	55,800	58,300
35	16°	44,300	48,100

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	69,600	72,500
30	66°	55,800	58,300
35	62°	44,300	48,100
40	58°	32,600	37,500
45	54°	24,800	29,100
50	49°	19,600	23,300
60	38°	12,400	15,500
70	24°	8,000	10,500

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
12 ft.	72°	120,000	140,000
15	69°	110,000	120,000
20	63°	89,800	93,800
25	56°	69,600	72,500
30	49°	55,800	58,300
35	41°	44,300	48,100
40	30°	32,600	37,500
45	14°	24,800	29,100

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	44,300	46,000
40	62°	32,600	37,500
45	59°	24,800	29,100
50	55°	19,600	23,300
60	46°	12,400	15,500
70	36°	8,000	10,500
80	23°	4,900	7,100

62 ft. boom length manual retracted

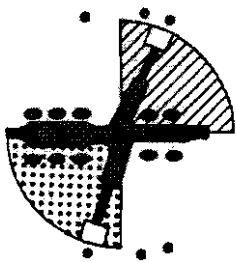
LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
12 ft.	76°	120,000	140,000
15	73°	110,000	120,000
20	68°	89,800	93,800
25	62°	69,600	72,500
30	57°	55,800	58,300
35	51°	44,300	48,100
40	44°	32,600	37,500
45	37°	24,800	29,100
50	28°	19,600	23,300

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	44,000	44,000
40	66°	32,600	37,500
45	62°	24,800	29,100
50	59°	19,600	23,300
60	52°	12,400	15,500
70	44°	8,000	10,500
80	35°	4,900	7,100
90	22°	2,800	4,700

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
12 ft.	78°	120,000	136,000
15	75°	110,000	120,000
20	71°	89,800	93,800
25	67°	69,600	72,500
30	62°	55,800	58,300
35	58°	44,300	48,100
40	52°	32,600	37,500
45	47°	24,800	29,100
50	41°	19,600	23,300
60	26°	12,400	15,500



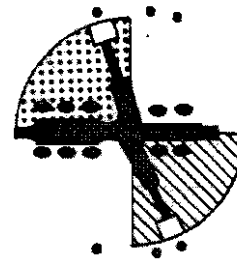
**OUTRIGGER POSITIONS:**

Right in **AFT** position extended.  
 Left in **FORE** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
**NO JIB.**  
**NO COUNTERWEIGHT.**

# 15



**OUTRIGGER POSITIONS:**

Right in **FORE** position extended.  
 Left in **AFT** position extended.

**WARNING:**

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

**WARNING:**

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — MANUAL EXTENDED

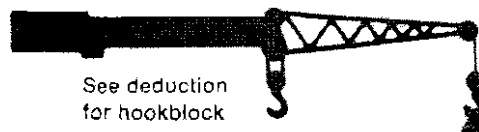


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	33,500	33,500
45	70°	27,800	30,500
50	67°	22,200	25,900
60	62°	14,900	17,900
70	57°	10,300	12,800
80	52°	7,100	9,300
90	46°	4,800	6,700
100	39°	3,100	4,800
110	30°	—	3,200
120	19°	—	1,900

Rating chart for — BOOM EXTENSION

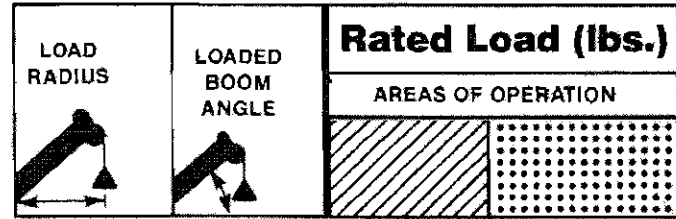
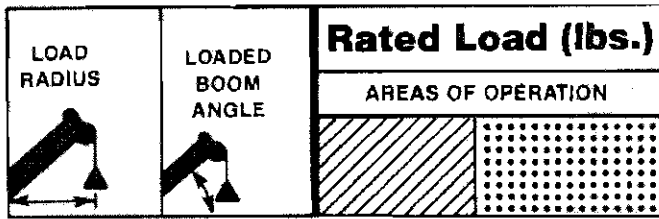
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	16,500	16,500
70	67°	12,400	14,900
80	64°	9,100	11,300
90	60°	6,700	8,600
100	55°	4,900	6,600
110	51°	3,500	5,000
120	46°	2,300	3,700
130	41°	1,300	2,600
140	35°	—	1,700



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		Hatched Area	Dotted Area
12 ft.	68°	130,000	130,000
15	63°	113,000	113,000
20	55°	96,000	96,000
25	45°	67,000	74,500
30	34°	43,600	55,300
35	16°	30,800	39,500

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		Hatched Area	Dotted Area
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	67,000	74,500
30	66°	43,600	55,300
35	62°	30,800	39,500
40	58°	22,800	29,800
45	54°	17,200	23,000
50	49°	13,400	18,400
60	38°	8,000	11,900
70	24°	4,600	7,700

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		Hatched Area	Dotted Area
12 ft.	72°	130,000	130,000
15	69°	113,000	113,000
20	63°	96,000	96,000
25	56°	67,000	74,500
30	49°	43,600	55,300
35	41°	30,800	39,500
40	30°	22,800	29,800
45	14°	17,200	23,000

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		Hatched Area	Dotted Area
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	43,600	53,500
35	66°	30,800	39,500
40	62°	22,800	29,800
45	59°	17,200	23,000
50	55°	13,400	18,400
60	46°	8,000	11,900
70	36°	4,600	7,700
80	23°	2,200	4,900

62 ft. boom length manual retracted

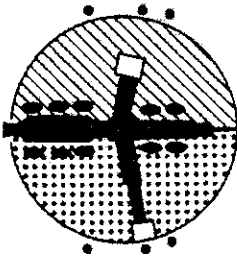
LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		Hatched Area	Dotted Area
12 ft.	76°	130,000	130,000
15	73°	113,000	113,000
20	68°	96,000	96,000
25	62°	67,000	74,500
30	57°	43,600	55,300
35	51°	30,800	39,500
40	44°	22,800	29,800
45	37°	17,200	23,000
50	28°	13,400	18,400

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		Hatched Area	Dotted Area
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	43,600	50,000
35	69°	30,800	39,500
40	66°	22,800	29,800
45	62°	17,200	23,000
50	59°	13,400	18,400
60	52°	8,000	11,900
70	44°	4,600	7,700
80	35°	2,200	4,900
90	22°	—	2,700

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		Hatched Area	Dotted Area
12 ft.	78°	130,000	130,000
15	75°	113,000	113,000
20	71°	96,000	96,000
25	67°	67,000	74,500
30	62°	43,600	55,300
35	58°	30,800	39,500
40	52°	22,800	29,800
45	47°	17,200	23,000
50	41°	13,400	18,400
60	26°	8,000	11,900

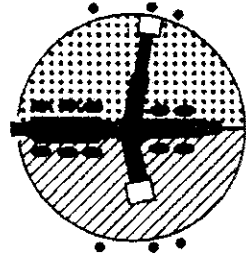


OUTRIGGER POSITIONS:  
 Right in **MID** position retracted.  
 Left in **MID** position extended.

# LiftCraft

SET UP AND AREAS OF OPERATION  
 NO JIB.  
 NO COUNTERWEIGHT.

# 16



OUTRIGGER POSITIONS:  
 Right in **MID** position extended.  
 Left in **MID** position retracted.

## WARNING:

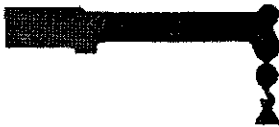
Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

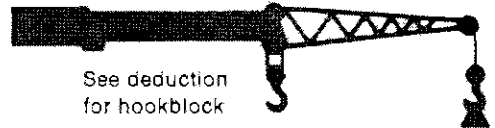
Rating chart for — MANUAL EXTENDED



For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	33,800	37,000
40	72°	25,600	32,600
45	70°	20,000	25,800
50	67°	15,900	20,900
60	62°	10,400	14,300
70	57°	6,800	10,000
80	52°	4,300	7,000
90	46°	2,400	4,800
100	39°	—	3,000

Rating chart for — BOOM EXTENSION  
 (Manual must be extended)

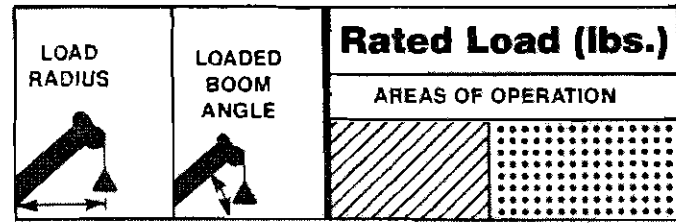
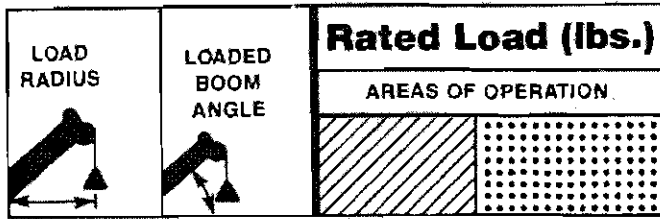


See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	12,500	16,400
70	67°	8,800	12,000
80	64°	6,200	8,900
90	60°	4,300	6,600
100	55°	2,800	4,800
110	51°	1,600	3,400
120	46°	—	2,300
130	41°	—	1,300





42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Diagonal Hatching	Grid
12 ft.	68°	160,000	160,000
15	63°	140,000	140,000
20	55°	118,000	118,000
25	45°	65,900	69,700
30	34°	42,600	46,600
35	16°	30,000	33,600

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Diagonal Hatching	Grid
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	65,900	69,700
30	66°	42,600	46,600
35	62°	30,000	33,600
40	58°	22,100	25,400
45	54°	16,700	19,600
50	49°	13,000	15,600
60	38°	7,600	9,800
70	24°	4,200	6,100

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Diagonal Hatching	Grid
12 ft.	72°	160,000	160,000
15	69°	140,000	140,000
20	63°	118,000	118,000
25	56°	65,900	69,700
30	49°	42,600	46,600
35	41°	30,000	33,600
40	30°	22,100	25,400
45	14°	16,700	19,600

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Diagonal Hatching	Grid
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	42,600	46,600
35	66°	30,000	33,600
40	62°	22,100	25,400
45	59°	16,700	19,600
50	55°	13,000	15,600
60	46°	7,600	9,800
70	36°	4,200	6,100
80	23°	1,900	3,500

62 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Diagonal Hatching	Grid
12 ft.	76°	153,000	153,000
15	73°	140,000	140,000
20	68°	118,000	118,000
25	62°	65,900	69,700
30	57°	42,600	46,600
35	51°	30,000	33,600
40	44°	22,100	25,400
45	37°	16,700	19,600
50	28°	13,000	15,600

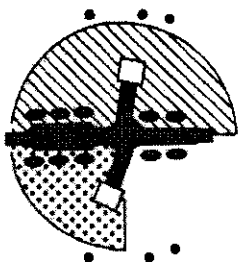
102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Diagonal Hatching	Grid
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	42,600	46,600
35	69°	30,000	33,600
40	66°	22,100	25,400
45	62°	16,700	19,600
50	59°	13,000	15,600
60	52°	7,600	9,800
70	44°	4,200	6,100
80	35°	1,900	3,500

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	
		Diagonal Hatching	Grid
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	108,000	108,000
25	67°	65,900	69,700
30	62°	42,600	46,600
35	58°	30,000	33,600
40	52°	22,100	25,400
45	47°	16,700	19,600
50	41°	13,000	15,600
60	26°	7,600	9,800

Rating Chart 17



**OUTRIGGER POSITIONS:**

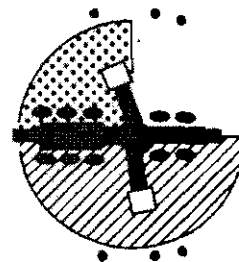
Right in **MID** position retracted.  
 Left in **FORE** position retracted.

# LiftCraft

**SET UP AND AREAS OF OPERATION**

**NO JIB.  
 NO COUNTERWEIGHT.**

# 17



**OUTRIGGER POSITIONS:**

Right in **FORE** position retracted.  
 Left in **MID** position retracted.

**WARNING:**

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

**WARNING:**

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

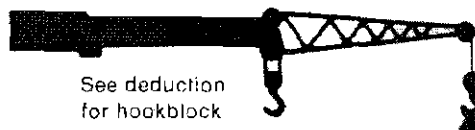


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	33,000	36,500
40	72°	24,900	28,100
45	70°	19,400	22,300
50	67°	15,400	18,000
60	62°	10,000	12,100
70	57°	6,500	8,300
80	52°	4,000	5,600
90	46°	2,200	3,600
100	39°	—	2,100

Rating chart for — **BOOM EXTENSION**

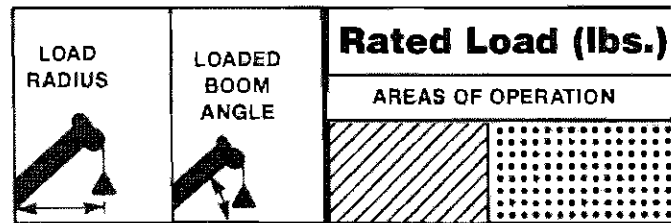
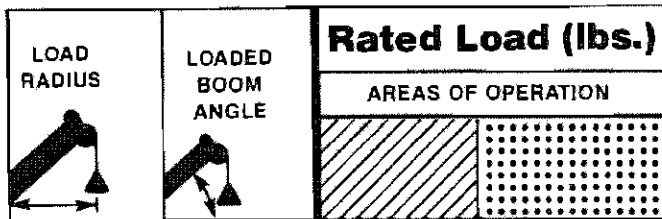
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	17,700	18,100
60	71°	12,100	14,200
70	67°	8,500	10,300
80	64°	5,900	7,500
90	60°	4,000	5,400
100	55°	2,600	3,800
110	51°	1,400	2,500
120	46°	—	1,500



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	68°	150,000	150,000
15	63°	129,000	129,000
20	55°	93,800	93,800
25	45°	66,500	72,500
30	34°	43,000	58,300
35	16°	30,300	48,100

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	66,500	72,500
30	66°	43,000	58,300
35	62°	30,300	48,100
40	58°	22,400	37,600
45	54°	16,900	29,100
50	49°	13,200	23,400
60	38°	7,800	15,500
70	24°	4,400	10,600

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	72°	150,000	150,000
15	69°	129,000	129,000
20	63°	93,800	93,800
25	56°	66,500	72,500
30	49°	43,000	58,300
35	41°	30,300	48,100
40	30°	22,400	37,600
45	14°	16,900	29,100

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	43,000	53,500
35	66°	30,300	46,000
40	62°	22,400	37,600
45	59°	16,900	29,100
50	55°	13,200	23,400
60	46°	7,800	15,500
70	36°	4,400	10,600
80	23°	2,000	7,200

62 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	76°	150,000	150,000
15	73°	129,000	129,000
20	68°	93,800	93,800
25	62°	66,500	72,500
30	57°	43,000	58,300
35	51°	30,300	48,100
40	44°	22,400	37,600
45	37°	16,900	29,100
50	28°	13,200	23,400

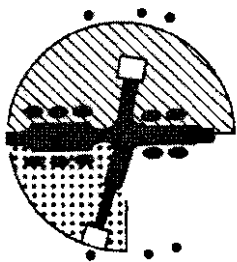
102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	43,000	50,000
35	69°	30,300	44,000
40	66°	22,400	37,600
45	62°	16,900	29,100
50	59°	13,200	23,400
60	52°	7,800	15,500
70	44°	4,400	10,600
80	35°	2,200	7,200
90	22°	—	4,700

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	93,800	93,800
25	67°	66,500	72,500
30	62°	43,000	58,300
35	58°	30,300	48,100
40	52°	22,400	37,600
45	47°	16,900	29,100
50	41°	13,200	23,400
60	26°	7,800	15,500

LOADING CHART 18



**OUTRIGGER POSITIONS:**

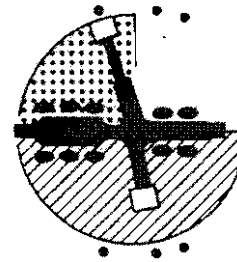
Right in **MID** position retracted.  
 Left in **FORE** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**

**NO JIB.  
 NO COUNTERWEIGHT.**

# 18



**OUTRIGGER POSITIONS:**

Right in **FORE** position extended.  
 Left in **MID** position retracted.

**WARNING:**

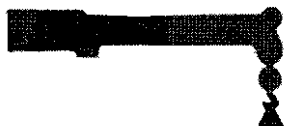
Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

**WARNING:**

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

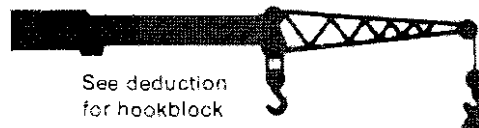


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	33,300	37,000
40	72°	25,200	33,500
45	70°	19,700	30,500
50	67°	15,600	26,000
60	62°	10,100	18,000
70	57°	6,600	12,900
80	52°	4,100	9,400
90	46°	2,300	6,800
100	39°	—	4,800
110	30°	—	3,200
120	19°	—	1,900

Rating chart for — **BOOM EXTENSION**

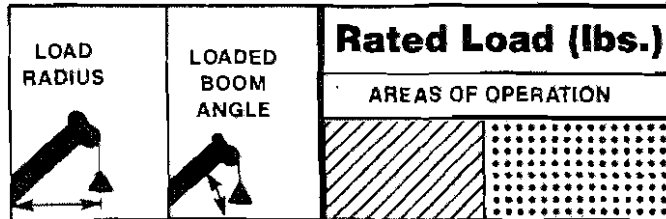
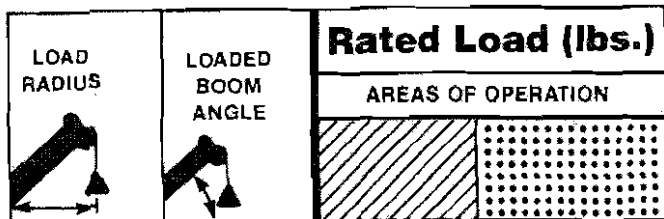
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	17,900	18,100
60	71°	12,300	16,500
70	67°	8,600	14,900
80	64°	6,000	11,300
90	60°	4,100	8,600
100	55°	2,700	6,600
110	51°	1,500	5,000
120	46°	—	3,700
130	41°	—	2,600
140	35°	—	1,700



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	68°	130,000	130,000
15	63°	113,000	113,000
20	55°	96,000	96,000
25	45°	70,500	74,500
30	34°	47,100	55,900
35	16°	34,100	40,000

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	70,500	74,500
30	66°	47,100	55,900
35	62°	34,100	40,000
40	58°	25,700	30,200
45	54°	19,900	23,400
50	49°	15,800	18,700
60	38°	10,000	12,100
70	24°	6,300	7,800

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	72°	130,000	130,000
15	69°	113,000	113,000
20	63°	96,000	96,000
25	56°	70,500	74,500
30	49°	47,100	55,900
35	41°	34,100	40,000
40	30°	25,700	30,200
45	14°	19,900	23,400

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	47,100	53,500
35	66°	34,100	40,000
40	62°	25,700	30,200
45	59°	19,900	23,400
50	55°	15,800	18,700
60	46°	10,000	12,100
70	36°	6,300	7,800
80	23°	3,700	4,800

62 ft. boom length manual retracted

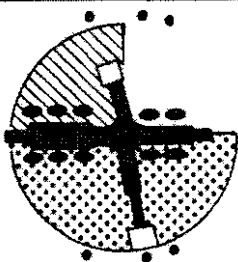
LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	75°	130,000	130,000
15	73°	113,000	113,000
20	68°	96,000	96,000
25	62°	70,500	74,500
30	57°	47,100	55,900
35	51°	34,100	40,000
40	44°	25,700	30,200
45	37°	19,900	23,400
50	28°	15,800	18,700

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	47,100	50,000
35	69°	34,100	40,000
40	66°	25,700	30,200
45	62°	19,900	23,400
50	59°	15,800	18,700
60	52°	10,000	12,100
70	44°	6,300	7,800
80	35°	3,700	4,800
90	22°	—	2,600

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	78°	130,000	130,000
15	75°	113,000	113,000
20	71°	96,000	96,000
25	67°	70,500	74,500
30	62°	47,100	55,900
35	58°	34,100	40,000
40	52°	25,700	30,200
45	47°	19,900	23,400
50	41°	15,800	18,700
60	26°	10,000	12,100

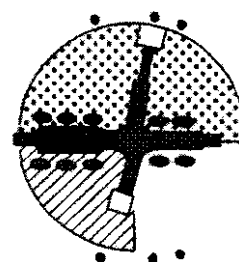


**OUTRIGGER POSITIONS:**  
 Right in **FORE** position retracted.  
 Left in **MID** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
**NO JIB.**  
**NO COUNTERWEIGHT.**

# 19



**OUTRIGGER POSITIONS:**  
 Right in **MID** position extended.  
 Left in **FORE** position retracted.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.


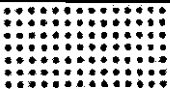
## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

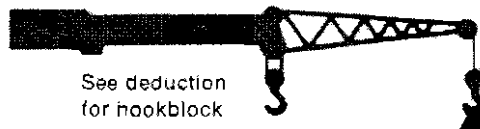
Rating chart for — **MANUAL EXTENDED**



For all boom lengths from 72 ft. to 132 ft.


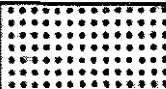
Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
			
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	36,900	37,000
40	72°	28,400	33,000
45	70°	22,500	26,100
50	67°	18,200	21,200
60	62°	12,300	14,500
70	57°	8,500	10,100
80	52°	5,700	7,000
90	46°	3,700	4,700
100	39°	2,200	2,900

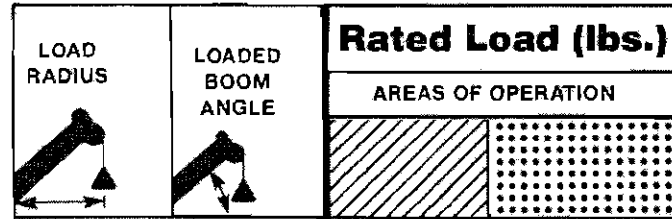
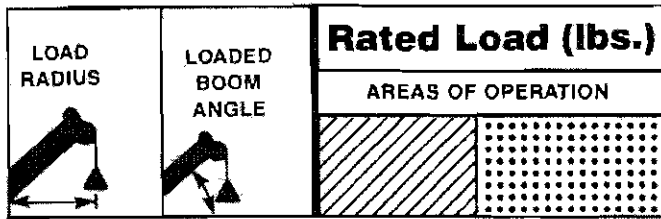
Rating chart for — **BOOM EXTENSION**  
 (Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
			
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	14,400	16,500
70	67°	10,400	12,100
80	64°	7,800	8,900
90	60°	5,500	6,600
100	55°	3,900	4,800
110	51°	2,600	3,300
120	46°	1,600	2,200
130	41°	—	1,200



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Grid)
12 ft.	68°	130,000	130,000
15	63°	113,000	113,000
20	55°	93,800	93,800
25	45°	72,500	72,500
30	34°	56,300	58,300
35	16°	40,400	48,100

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Grid)
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	72,500	72,500
30	66°	56,300	58,300
35	62°	40,400	48,100
40	58°	30,500	37,900
45	54°	23,600	29,400
50	49°	18,900	23,700
60	38°	12,300	15,700
70	24°	7,900	10,700

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Grid)
12 ft.	72°	130,000	130,000
15	69°	113,000	113,000
20	63°	93,800	93,800
25	56°	72,500	72,500
30	49°	56,300	58,300
35	41°	40,400	48,100
40	30°	30,500	37,900
45	14°	23,600	29,400

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Grid)
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	40,400	46,000
40	62°	30,500	37,900
45	59°	23,600	29,400
50	55°	18,900	23,700
60	46°	12,300	15,700
70	36°	7,900	10,700
80	23°	4,900	7,300

62 ft. boom length manual retracted

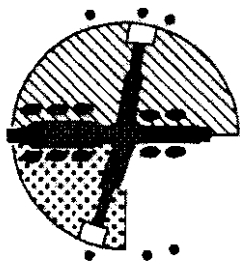
LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Grid)
12 ft.	76°	130,000	130,000
15	73°	113,000	113,000
20	68°	93,800	93,800
25	62°	72,500	72,500
30	57°	56,300	58,300
35	51°	40,400	48,100
40	44°	30,500	37,900
45	37°	23,600	29,400
50	28°	18,900	23,700

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Grid)
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	40,400	44,000
40	66°	30,500	37,900
45	62°	23,600	29,400
50	59°	18,900	23,700
60	52°	12,300	15,700
70	44°	7,900	10,700
80	35°	4,900	7,300
90	22°	2,700	4,900

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Grid)
12 ft.	78°	130,000	130,000
15	75°	113,000	113,000
20	71°	93,800	93,800
25	67°	72,500	72,500
30	62°	56,300	58,300
35	58°	40,400	48,100
40	52°	30,500	37,900
45	47°	23,600	29,400
50	41°	18,900	23,700
60	26°	12,300	15,700

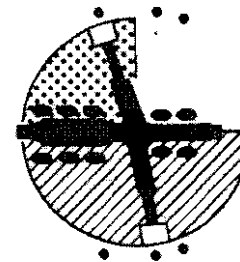


**OUTRIGGER POSITIONS:**  
 Right in **MID** position extended.  
 Left in **FORE** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
**NO JIB.**  
**NO COUNTERWEIGHT.**

# 20



**OUTRIGGER POSITIONS:**  
 Right in **FORE** position extended.  
 Left in **MID** position extended.

## WARNING:

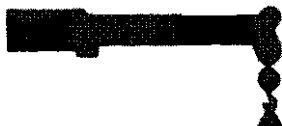
Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

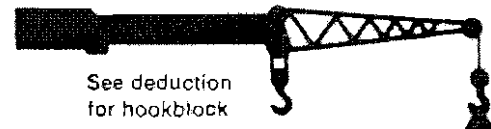
Rating chart for — MANUAL EXTENDED



For all boom lengths from 72 ft. to 132 ft.

Rating chart for — BOOM EXTENSION

(Manual must be extended)



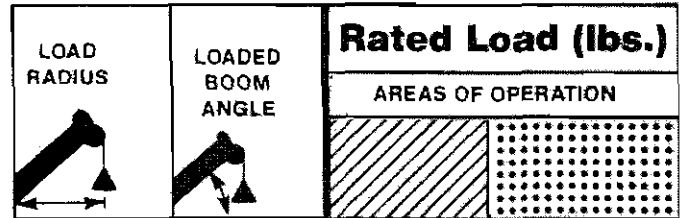
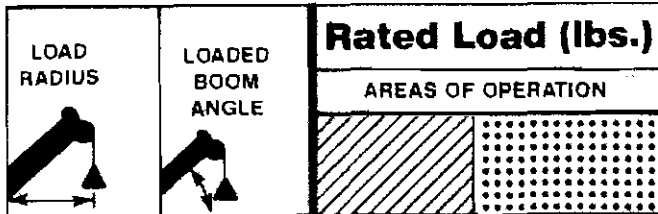
See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	32,300	33,500
45	70°	26,400	30,500
50	67°	21,400	26,200
60	62°	14,600	18,200
70	57°	10,200	13,000
80	52°	7,100	9,500
90	46°	4,800	6,900
100	39°	3,000	4,900
110	30°	—	3,300
120	19°	—	2,000

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	16,500	16,500
70	67°	12,300	15,000
80	64°	9,000	11,400
90	60°	6,700	8,800
100	55°	4,800	6,700
110	51°	3,400	5,100
120	46°	2,300	3,800
130	41°	1,300	2,700
140	35°	—	1,800
150	29°	—	1,000





42 ft. boom length manual retracted

12 ft.	68°	165,000	165,000
15	63°	129,000	129,000
20	55°	93,800	93,800
25	45°	71,500	72,500
30	34°	47,900	58,300
35	16°	34,600	48,100

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	71,500	72,500
30	66°	47,900	58,300
35	62°	34,600	48,100
40	58°	26,200	38,000
45	54°	20,300	29,500
50	49°	16,200	23,700
60	38°	10,300	15,800
70	24°	6,500	10,800

52 ft. boom length manual retracted

12 ft.	72°	160,000	160,000
15	69°	129,000	129,000
20	63°	93,800	93,800
25	56°	71,500	72,500
30	49°	47,900	58,300
35	41°	34,600	48,100
40	30°	26,200	38,000
45	14°	20,300	29,500

92 ft. boom length manual retracted

20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	47,900	53,500
35	66°	34,600	46,000
40	62°	26,200	38,000
45	59°	20,300	29,500
50	55°	16,200	23,700
60	46°	10,300	15,800
70	36°	6,500	10,800
80	23°	3,900	7,400

62 ft. boom length manual retracted

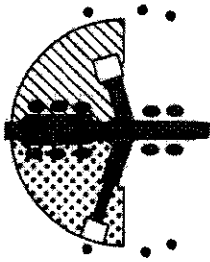
12 ft.	76°	153,000	153,000
15	73°	129,000	129,000
20	68°	93,800	93,800
25	62°	71,500	72,500
30	57°	47,900	58,300
35	51°	34,600	48,100
40	44°	26,200	38,000
45	37°	20,300	29,500
50	28°	16,200	23,700

102 ft. boom length manual retracted

20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	47,900	50,000
35	69°	34,600	44,000
40	66°	26,200	38,000
45	62°	20,300	29,500
50	59°	16,200	23,700
60	52°	10,300	15,800
70	44°	6,500	10,800
80	35°	3,900	7,400
90	22°	--	4,900

72 ft. boom length manual retracted

12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	93,800	93,800
25	67°	71,500	72,500
30	62°	47,900	58,300
35	58°	34,600	48,100
40	52°	26,200	38,000
45	47°	20,300	29,500
50	41°	16,200	23,700
60	26°	10,300	15,800

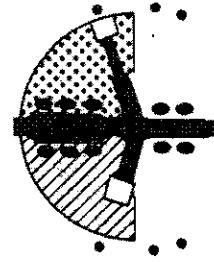


**OUTRIGGER POSITIONS:**  
 Right in **FORE** position retracted.  
 Left in **FORE** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
**NO JIB.**  
**NO COUNTERWEIGHT.**

# 21



**OUTRIGGER POSITIONS:**  
 Right in **FORE** position extended.  
 Left in **FORE** position retracted.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — MANUAL EXTENDED

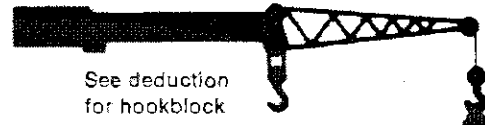


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	28,900	33,500
45	70°	23,000	30,500
50	67°	18,600	26,300
60	62°	12,600	18,200
70	57°	8,700	13,100
80	52°	5,900	9,500
90	46°	3,900	6,900
100	39°	2,300	4,900
110	30°	—	3,300
120	19°	—	2,100

Rating chart for — BOOM EXTENSION

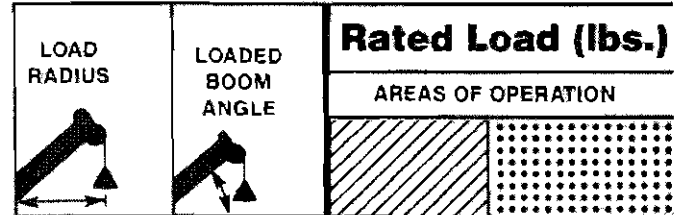
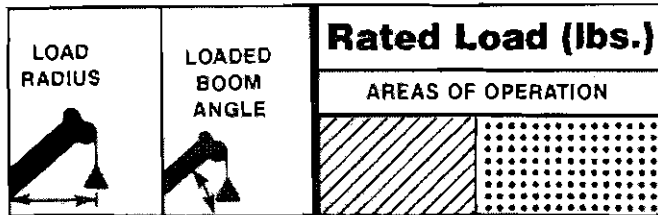
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	14,700	16,500
70	67°	10,600	15,000
80	64°	7,800	11,500
90	60°	5,700	8,800
100	55°	4,100	6,800
110	51°	2,800	5,100
120	46°	1,700	3,800
130	41°	—	2,700
140	35°	—	1,800



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	68°	150,000	150,000
15	63°	131,000	131,000
20	55°	95,600	95,600
25	45°	74,300	74,300
30	34°	59,700	59,700
35	16°	44,300	49,300

**CAUTION:**  
Boom must be fully retracted against stops.

62 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	74,300	74,300
30	66°	59,700	59,700
35	62°	44,300	49,300
40	58°	32,600	41,500
45	54°	24,800	35,300
50	49°	19,600	29,700
60	38°	12,500	20,600
70	24°	8,000	14,800

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	72°	150,000	150,000
15	69°	131,000	131,000
20	63°	95,600	95,600
25	56°	74,300	74,300
30	49°	59,700	59,700
35	41°	44,300	49,300
40	30°	32,600	41,500
45	14°	24,800	35,300

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	44,300	46,000
40	62°	32,600	40,200
45	59°	24,800	35,300
50	55°	19,600	29,700
60	46°	12,500	20,600
70	36°	8,000	14,800
80	23°	5,000	10,800

62 ft. boom length manual retracted

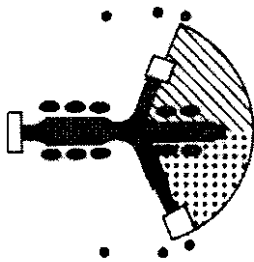
LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	76°	150,000	150,000
15	73°	131,000	131,000
20	68°	95,600	95,600
25	62°	74,300	74,300
30	57°	59,700	59,700
35	51°	44,300	49,300
40	44°	32,600	41,500
45	37°	24,800	35,300
50	28°	19,600	29,700

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	44,000	44,000
40	66°	32,600	39,000
45	62°	24,800	34,500
50	59°	19,600	29,700
60	52°	12,500	20,600
70	44°	8,000	14,800
80	35°	5,000	10,800
90	22°	2,800	7,900

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	95,600	95,600
25	67°	74,300	74,300
30	62°	59,700	59,700
35	58°	44,300	49,300
40	52°	32,600	41,500
45	47°	24,800	35,300
50	41°	19,600	29,700
60	26°	12,500	20,600

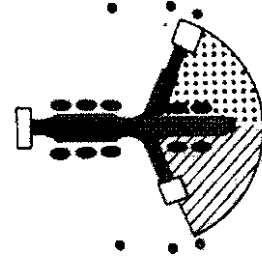


**OUTRIGGER POSITIONS:**  
 Right in **AFT** position retracted.  
 Left in **AFT** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
**NO JIB.**  
**WITH 10,000 LBS. FRONT COUNTERWEIGHT.**

# 22



**OUTRIGGER POSITIONS:**  
 Right in **AFT** position extended.  
 Left in **AFT** position retracted.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

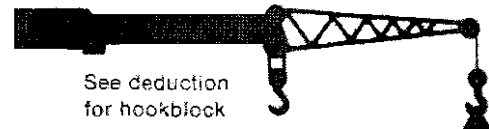


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	33,500	33,500
45	70°	27,800	30,500
50	67°	22,300	28,000
60	62°	15,000	23,000
70	57°	10,400	17,100
80	52°	7,200	13,000
90	46°	4,900	9,900
100	39°	3,100	7,600
110	30°	—	5,800
120	19°	—	4,200

Rating chart for — **BOOM EXTENSION**

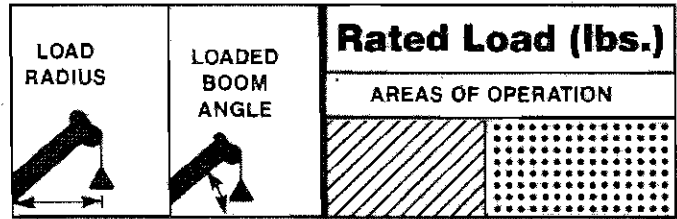
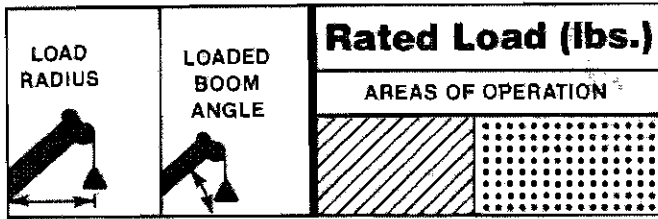
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	16,500	16,500
70	67°	12,400	15,000
80	64°	9,200	13,100
90	60°	6,800	11,600
100	55°	4,900	9,400
110	51°	3,500	7,500
120	46°	2,300	6,000
130	41°	1,400	4,700
140	35°	—	3,700
150	29°	—	2,700
160	20°	—	1,900



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	68°	200,000	200,000
15	63°	155,000	155,000
20	55°	118,000	118,000
25	45°	88,400	91,000
30	34°	54,900	63,100
35	16°	38,100	43,300

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	75,500	75,500
30	66°	54,900	63,100
35	62°	38,100	43,300
40	58°	28,100	31,800
45	54°	21,300	24,200
50	49°	16,800	19,100
60	38°	10,400	12,100
70	24°	6,400	7,700

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	72°	160,000	160,000
15	69°	155,000	155,000
20	63°	118,000	118,000
25	56°	88,400	91,000
30	49°	54,900	63,100
35	41°	38,100	43,300
40	30°	28,100	31,800
45	14°	21,300	24,200

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	38,100	43,800
40	62°	28,100	31,800
45	59°	21,300	24,200
50	55°	16,800	19,100
60	46°	10,400	12,100
70	36°	6,400	7,700
80	23°	3,700	4,700

62 ft. boom length manual retracted

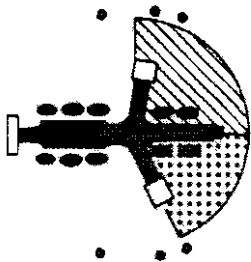
LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	76°	153,000	153,000
15	73°	141,000	141,000
20	68°	118,000	118,000
25	62°	88,400	91,000
30	57°	54,900	63,100
35	51°	38,100	43,300
40	44°	28,100	31,800
45	37°	21,300	24,200
50	28°	16,800	19,100

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	38,100	43,300
40	66°	28,100	31,800
45	62°	21,300	24,200
50	59°	16,800	19,100
60	52°	10,400	12,100
70	44°	6,400	7,700
80	35°	3,700	4,700
90	22°	—	2,600

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION (Hatched)	AREAS OF OPERATION (Dotted)
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	108,000	108,000
25	67°	88,400	91,000
30	62°	54,900	63,100
35	58°	38,100	43,300
40	52°	28,100	31,800
45	47°	21,300	24,200
50	41°	16,800	19,100
60	26°	10,400	12,100



**OUTRIGGER POSITIONS:**

Right in **MID** position retracted.  
 Left in **AFT** position retracted.

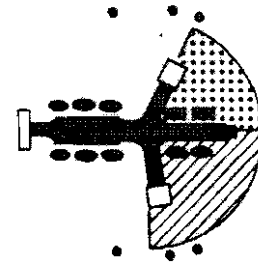
# LiftCraft

**SET UP AND AREAS OF OPERATION**

**NO JIB.**

**WITH 10,000 LBS. FRONT COUNTERWEIGHT**

# 23



**OUTRIGGER POSITIONS:**

Right in **AFT** position retracted.  
 Left in **MID** position retracted.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

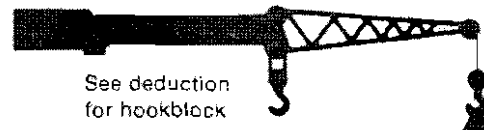
Rating chart for — **MANUAL EXTENDED**



For all boom lengths from 72 ft. to 132 ft.

Rating chart for — **BOOM EXTENSION**

(Manual must be extended)

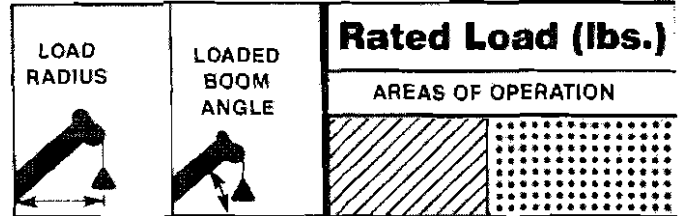
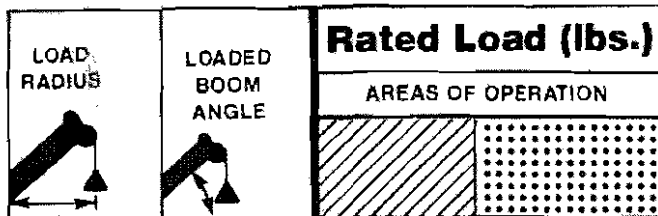


See deduction for hookblock

For all boom lengths from: 114 ft. to 174 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	31,100	33,500
45	70°	24,200	27,200
50	67°	19,300	21,700
60	62°	12,800	14,600
70	57°	8,700	10,000
80	52°	5,800	6,900
90	46°	3,700	4,500
100	39°	2,100	2,900

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	15,000	16,500
70	67°	10,700	12,100
80	64°	7,800	8,900
90	60°	5,800	6,500
100	55°	3,900	4,700
110	51°	2,600	3,300
120	46°	1,500	2,200
130	41°	—	1,200



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	68°	146,000	146,000
15	63°	130,000	130,000
20	55°	96,000	96,000
25	45°	74,500	74,500
30	34°	60,000	60,000
35	16°	44,200	49,600

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	74,500	74,500
30	66°	60,000	60,000
35	62°	44,200	49,600
40	58°	32,500	41,600
45	54°	24,800	32,900
50	49°	19,600	27,000
60	38°	12,400	18,600
70	24°	8,000	13,100

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	72°	146,000	146,000
15	69°	130,000	130,000
20	63°	96,000	96,000
25	56°	74,500	74,500
30	49°	60,000	60,000
35	41°	44,200	49,600
40	30°	32,500	41,600
45	14°	24,800	32,900

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	44,200	46,000
40	62°	32,500	40,200
45	59°	24,800	32,900
50	55°	19,600	27,000
60	46°	12,400	18,600
70	36°	8,000	13,100
80	23°	5,000	9,000

62 ft. boom length manual retracted

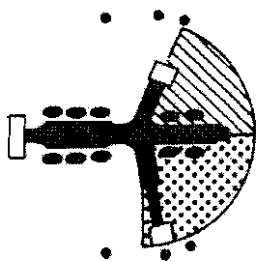
LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	76°	146,000	146,000
15	73°	130,000	130,000
20	68°	96,000	96,000
25	62°	74,500	74,500
30	57°	60,000	60,000
35	51°	44,200	49,600
40	44°	32,500	41,600
45	37°	24,800	32,900
50	28°	19,600	27,000

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	44,000	44,000
40	66°	32,500	39,000
45	62°	24,800	32,900
50	59°	19,600	27,000
60	52°	12,400	18,600
70	44°	8,000	13,100
80	35°	5,000	9,000
90	22°	2,800	6,200

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	96,000	96,000
25	67°	74,500	74,500
30	62°	60,000	60,000
35	58°	44,200	49,600
40	52°	32,500	41,600
45	47°	24,800	32,900
50	41°	19,600	27,000
60	28°	12,400	18,600



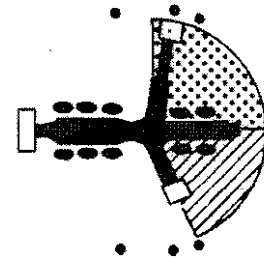
**OUTRIGGER POSITIONS:**  
 Right in **AFT** position retracted.  
 Left in **MID** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**

**NO JIB.**  
**WITH 10,000 LBS. FRONT COUNTERWEIGHT.**

# 24



**OUTRIGGER POSITIONS:**  
 Right in **MID** position extended.  
 Left in **AFT** position retracted.

## WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

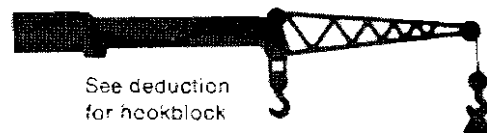
Rating chart for — **MANUAL EXTENDED**



For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	33,500	33,500
45	70°	27,700	30,500
50	67°	22,200	28,000
60	62°	14,900	20,900
70	57°	10,300	15,500
80	52°	7,200	11,400
90	46°	4,800	8,300
100	39°	3,100	6,000
110	30°	—	4,300
120	19°	—	2,800

Rating chart for — **BOOM EXTENSION**  
 (Manual must be extended)

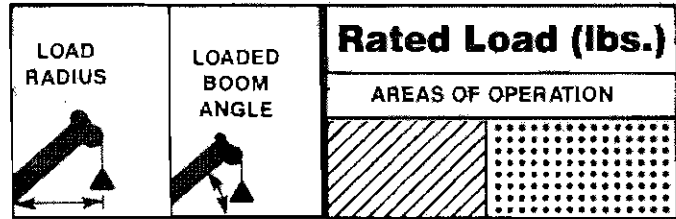
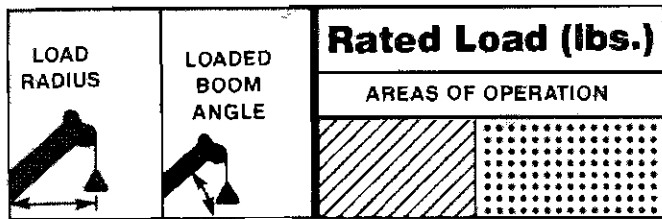


See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	16,500	16,500
70	67°	12,400	15,000
80	64°	9,100	13,100
90	60°	6,700	10,300
100	55°	4,900	8,000
110	51°	3,500	6,100
120	46°	2,300	4,700
130	41°	1,400	3,500
140	35°	—	2,400
150	29°	—	1,600





42 ft. boom length manual retracted

12 ft.	68°	150,000	150,000
15	63°	131,000	131,000
20	55°	95,600	95,600
25	45°	74,300	74,300
30	34°	55,800	59,700
35	16°	38,800	49,300

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	74,300	74,300
30	66°	55,800	59,700
35	62°	38,800	49,300
40	58°	28,600	41,500
45	54°	21,800	35,300
50	49°	17,100	29,900
60	38°	10,700	20,700
70	24°	6,600	14,900

52 ft. boom length manual retracted

12 ft.	72°	150,000	150,000
15	69°	131,000	131,000
20	63°	95,600	95,600
25	56°	74,300	74,300
30	49°	55,800	59,700
35	41°	38,800	49,300
40	30°	28,600	41,500
45	14°	21,800	35,300

92 ft. boom length manual retracted

20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	38,800	46,000
40	62°	28,600	40,200
45	59°	21,800	35,300
50	55°	17,100	29,900
60	46°	10,700	20,700
70	36°	6,600	14,900
80	23°	3,900	10,900

62 ft. boom length manual retracted

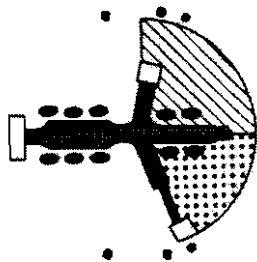
12 ft.	76°	150,000	150,000
15	73°	131,000	131,000
20	68°	95,600	95,600
25	62°	74,300	74,300
30	57°	55,800	59,700
35	51°	38,800	49,300
40	44°	28,600	41,500
45	37°	21,800	35,300
50	28°	17,100	29,900

102 ft. boom length manual retracted

20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	38,800	44,000
40	66°	28,600	39,000
45	62°	21,800	34,500
50	59°	17,100	29,300
60	52°	10,700	20,700
70	44°	6,600	14,900
80	35°	3,900	10,900
90	22°	—	8,000

72 ft. boom length manual retracted

12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	95,600	95,600
25	67°	74,300	74,300
30	62°	55,800	59,700
35	58°	38,800	49,300
40	52°	28,600	41,500
45	47°	21,800	35,300
50	41°	17,100	29,900
60	26°	10,700	20,700

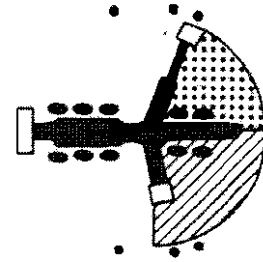


**OUTRIGGER POSITIONS:**  
 Right in **MID** position retracted.  
 Left in **AFT** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
**NO JIB.**  
**WITH 10,000 LBS. FRONT COUNTERWEIGHT.**

# 25



**OUTRIGGER POSITIONS:**  
 Right in **AFT** position extended.  
 Left in **MID** position retracted.

## WARNING:

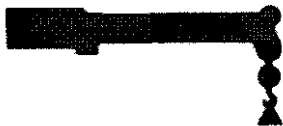
Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

## WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

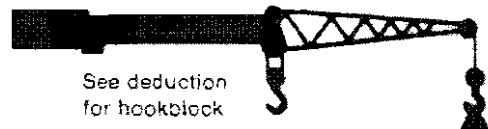


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	31,600	33,500
45	70°	24,700	30,500
50	67°	19,700	28,000
60	62°	13,100	23,000
70	57°	8,900	17,200
80	52°	6,000	13,000
90	46°	3,900	10,000
100	39°	2,300	7,700
110	30°	—	5,800
120	19°	—	4,300

Rating chart for — **BOOM EXTENSION**

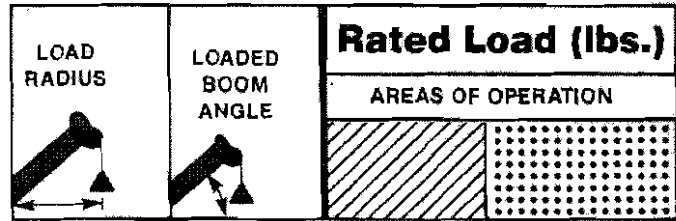
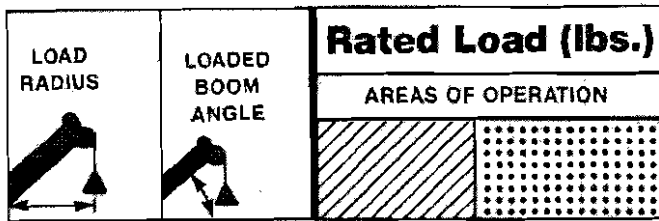
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	15,300	16,500
70	67°	11,000	15,000
80	64°	8,000	13,100
90	60°	5,800	11,600
100	55°	4,100	9,500
110	51°	2,800	7,600
120	46°	1,700	6,000
130	41°	—	4,800
140	35°	—	3,700
150	29°	—	2,800
160	20°	—	1,900



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	68°	146,000	146,000
15	63°	130,000	130,000
20	55°	95,600	95,600
25	45°	74,300	74,300
30	34°	59,700	59,700
35	16°	49,300	49,300

**CAUTION:**  
Boom must be fully retracted against stops.

62 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	AREAS OF OPERATION
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	74,300	74,300
30	66°	59,700	59,700
35	62°	49,300	49,300
40	58°	41,500	41,500
45	54°	32,900	35,300
50	49°	27,000	29,900
60	38°	18,600	20,800
70	24°	13,200	14,900

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	72°	146,000	146,000
15	69°	130,000	130,000
20	63°	95,600	95,600
25	56°	74,300	74,300
30	49°	59,700	59,700
35	41°	49,300	49,300
40	30°	41,500	41,500
45	14°	32,900	35,300

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	AREAS OF OPERATION
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	46,000	46,000
40	62°	40,200	40,200
45	59°	32,900	35,300
50	55°	27,000	29,900
60	46°	18,600	20,800
70	36°	13,200	14,900
80	23°	9,300	10,900

62 ft. boom length manual retracted

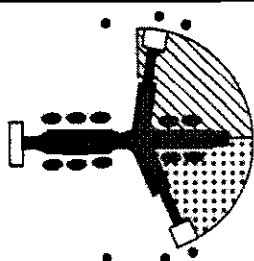
LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	76°	146,000	146,000
15	73°	130,000	130,000
20	68°	95,600	95,600
25	62°	74,300	74,300
30	57°	59,700	59,700
35	51°	49,300	49,300
40	44°	41,500	41,500
45	37°	32,900	35,300
50	28°	27,000	29,900

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	AREAS OF OPERATION
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	44,000	44,000
40	66°	39,000	39,000
45	62°	32,900	34,500
50	59°	27,000	29,900
60	52°	18,600	20,800
70	44°	13,200	14,900
80	35°	9,300	10,900
90	22°	6,400	8,000

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	AREAS OF OPERATION	AREAS OF OPERATION
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	95,600	95,600
25	67°	74,300	74,300
30	62°	59,700	59,700
35	58°	49,300	49,300
40	52°	41,500	41,500
45	47°	32,900	35,300
50	41°	27,000	29,900
60	26°	18,600	20,800



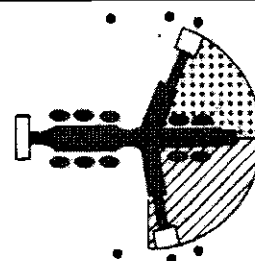
**OUTRIGGER POSITIONS:**

Right in **MID** position extended.  
Left in **AFT** position extended.

# LiftCraft

**SET UP AND AREAS OF OPERATION**  
**NO JIB.**  
**WITH 10,000 LBS. FRONT COUNTERWEIGHT.**

# 26



**OUTRIGGER POSITIONS:**

Right in **AFT** position extended.  
Left in **MID** position extended.

**WARNING:**

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

**WARNING:**

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

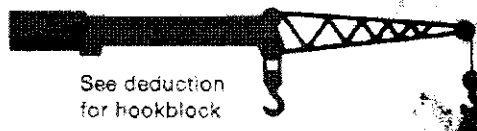


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	33,500	33,500
45	70°	30,500	30,500
50	67°	28,000	28,000
60	62°	20,900	23,000
70	57°	15,500	17,200
80	52°	11,600	13,100
90	46°	8,500	10,000
100	39°	6,200	7,700
110	30°	4,400	5,800
120	19°	3,000	4,300

Rating chart for — **BOOM EXTENSION**

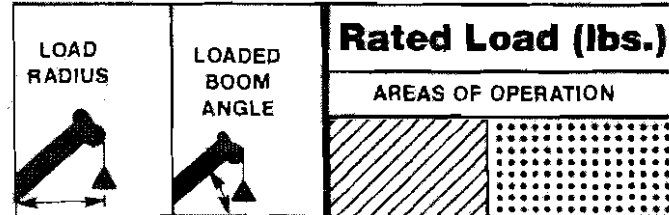
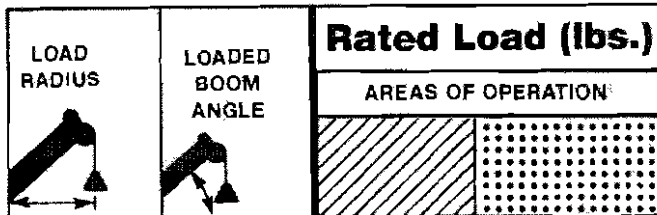
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	16,500	16,500
70	67°	15,000	15,000
80	64°	13,100	13,100
90	60°	10,500	11,600
100	55°	8,100	9,500
110	51°	6,300	7,600
120	46°	4,800	6,100
130	41°	3,600	4,800
140	35°	2,600	3,700
150	29°	1,700	2,600
160	20°	—	2,000



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	68°	146,000	146,000
15	63°	130,000	130,000
20	55°	96,000	96,000
25	45°	74,500	74,500
30	34°	55,600	60,000
35	16°	38,700	49,600

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	74,500	74,500
30	66°	55,600	60,000
35	62°	38,700	49,600
40	58°	28,600	41,600
45	54°	21,700	33,100
50	49°	17,100	27,100
60	38°	10,700	18,700
70	24°	6,600	13,000

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	72°	146,000	146,000
15	69°	130,000	130,000
20	63°	96,000	96,000
25	56°	74,500	74,500
30	49°	55,600	60,000
35	41°	38,700	49,600
40	30°	28,600	41,600
45	14°	21,700	33,100

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	68°	38,700	46,000
40	62°	28,600	40,200
45	59°	21,700	33,100
50	55°	17,100	27,100
60	46°	10,700	18,700
70	38°	6,600	13,000
80	23°	3,800	9,000

62 ft. boom length manual retracted

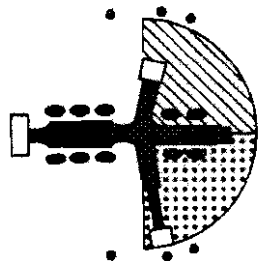
LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	76°	146,000	146,000
15	73°	130,000	130,000
20	68°	96,000	96,000
25	62°	74,500	74,500
30	57°	55,600	60,000
35	51°	38,700	49,600
40	44°	28,600	41,600
45	37°	21,700	33,100
50	28°	17,100	27,100

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	38,700	44,000
40	66°	28,600	33,900
45	62°	21,700	33,100
50	59°	17,100	27,100
60	52°	10,700	18,700
70	44°	6,600	13,000
80	35°	3,800	9,000
90	22°	—	6,100

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	Rated Load (lbs.)	
AREAS OF OPERATION			
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	96,000	96,000
25	67°	74,500	74,500
30	62°	55,600	60,000
35	58°	38,700	49,600
40	52°	28,600	41,600
45	47°	21,700	33,100
50	41°	17,100	27,100
60	26°	10,700	18,700



**OUTRIGGER POSITIONS:**

Right in **MID** position retracted.  
Left in **MID** position extended.

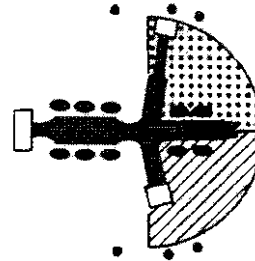
# LiftCraft

**SET UP AND AREAS OF OPERATION**

**NO JIB.**

**WITH 10,000 LBS. FRONT COUNTERWEIGHT.**

# 27



**OUTRIGGER POSITIONS:**

Right in **MID** position extended.  
Left in **MID** position retracted.

**WARNING:**

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

**WARNING:**

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

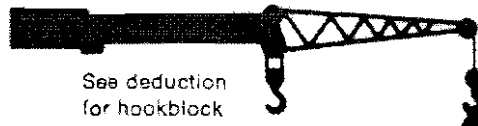


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	31,500	33,500
45	70°	24,600	30,500
50	67°	19,700	28,000
60	62°	13,100	21,100
70	57°	8,900	15,600
80	52°	6,000	11,300
90	46°	3,900	8,300
100	39°	2,200	6,000
110	30°	—	4,200
120	19°	—	2,800

Rating chart for — **BOOM EXTENSION**

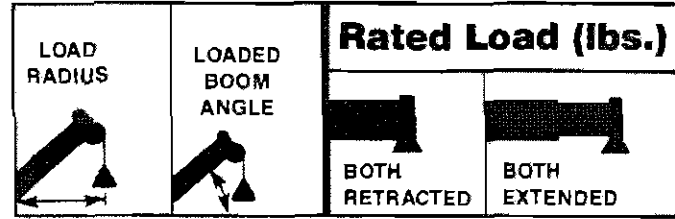
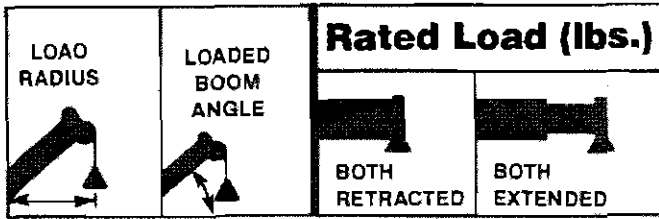
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		AREAS OF OPERATION	
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	15,300	16,500
70	67°	10,900	15,000
80	64°	7,900	13,100
90	60°	5,700	10,300
100	55°	4,100	7,900
110	51°	2,700	6,100
120	46°	1,600	4,600
130	41°	—	3,400
140	35°	—	2,400
150	29°	—	1,600



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	68°	200,000	130,000
15	63°	155,000	113,000
20	55°	118,000	96,000
25	45°	65,700	74,500
30	34°	42,400	60,000
35	16°	29,900	44,300

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	65,700	74,500
30	66°	42,400	60,000
35	62°	29,900	44,300
40	58°	22,100	32,500
45	54°	16,600	24,700
50	49°	12,900	19,500
60	38°	7,700	12,400
70	24°	4,300	8,000

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	72°	160,000	130,000
15	69°	155,000	113,000
20	63°	118,000	96,000
25	56°	65,700	74,500
30	49°	42,400	60,000
35	41°	29,900	44,300
40	30°	22,100	32,500
45	14°	16,600	24,700

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	42,400	53,500
35	66°	29,900	44,300
40	62°	22,100	32,500
45	59°	16,600	24,700
50	55°	12,900	19,500
60	46°	7,700	12,400
70	36°	4,300	8,000
80	23°	—	4,900

62 ft. boom length manual retracted

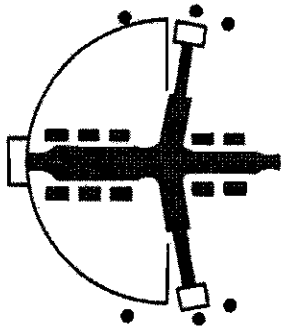
LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	76°	153,000	130,000
15	73°	141,000	113,000
20	68°	118,000	96,000
25	62°	65,700	74,500
30	57°	42,400	60,000
35	51°	29,900	44,300
40	44°	22,100	32,500
45	37°	16,600	24,700
50	28°	12,900	19,500

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	42,400	50,000
35	69°	29,900	44,000
40	66°	22,100	32,500
45	62°	16,600	24,700
50	59°	12,900	19,500
60	52°	7,700	12,400
70	44°	4,300	8,000
80	35°	—	4,900
90	22°	—	2,800

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	78°	136,000	130,000
15	75°	124,000	113,000
20	71°	108,000	96,000
25	67°	65,700	74,500
30	62°	42,400	60,000
35	58°	29,900	44,300
40	52°	22,100	32,500
45	47°	16,600	24,700
50	41°	12,900	19,500
60	26°	7,700	12,400



# 28

## LiftCraft SET UP AND AREAS OF OPERATION

1. **OUTRIGGERS:** In **MID** position, either retracted or extended.
2. **NO JIB.**
3. **WITH 10,000 LBS. FRONT COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **180° over the front.**

### WARNING:

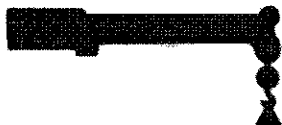
Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

### WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only.** Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

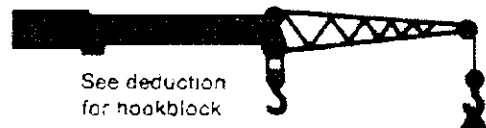


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	32,900	37,000
40	72°	24,900	33,500
45	70°	19,400	27,700
50	67°	15,400	22,200
60	62°	10,000	14,900
70	57°	6,500	10,300
80	52°	4,000	7,100
90	46°	2,200	4,800
100	39°	—	3,100
110	30°	—	1,700

Rating chart for — **BOOM EXTENSION**

(Manual must be extended)

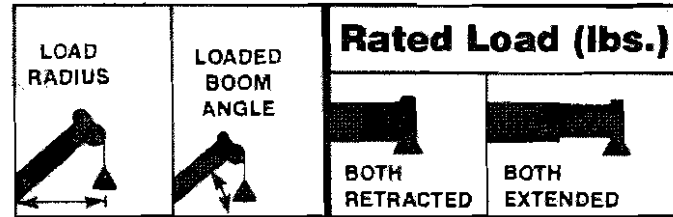
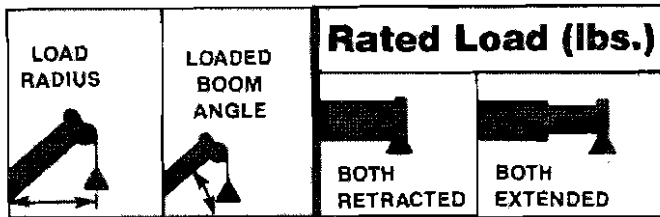


See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	17,700	18,100
60	71°	12,100	16,500
70	67°	8,400	12,400
80	64°	5,900	9,100
90	60°	4,000	6,700
100	55°	2,600	4,900
110	51°	1,400	3,500
120	46°	—	2,300
130	41°	—	1,400





42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	68°	200,000	165,000
15	63°	155,000	133,000
20	55°	118,000	97,000
25	45°	91,000	75,000
30	34°	72,000	60,300
35	16°	52,400	49,700

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	75,500	75,000
30	66°	66,500	60,300
35	62°	52,400	49,700
40	58°	39,200	41,600
45	54°	30,400	35,500
50	49°	24,500	30,500
60	38°	16,300	23,000
70	24°	11,100	17,800

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	72°	160,000	160,000
15	69°	155,000	133,000
20	63°	118,000	97,000
25	56°	91,000	75,000
30	49°	72,000	60,300
35	41°	52,400	49,700
40	30°	39,200	41,600
45	14°	30,400	35,500

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	46,000	46,000
40	62°	39,200	40,200
45	59°	30,400	35,500
50	55°	24,500	30,500
60	46°	16,300	23,000
70	36°	11,100	17,800
80	23°	7,600	13,400

62 ft. boom length manual retracted

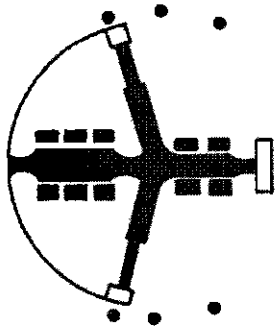
LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	76°	153,000	153,000
15	73°	141,000	133,000
20	68°	118,000	97,000
25	62°	91,000	75,000
30	57°	72,000	60,300
35	51°	52,400	49,700
40	44°	39,200	41,600
45	37°	30,400	35,500
50	28°	24,500	30,500

102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	44,000	44,000
40	66°	39,000	39,000
45	62°	30,400	34,500
50	59°	24,500	30,500
60	52°	16,300	23,000
70	44°	11,100	17,800
80	35°	7,600	13,400
90	22°	5,100	10,000

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	78°	136,000	136,000
15	75°	124,000	124,000
20	71°	108,000	97,000
25	67°	91,000	75,000
30	62°	72,000	60,300
35	58°	52,400	49,700
40	52°	39,200	41,600
45	47°	30,400	35,500
50	41°	24,500	30,500
60	25°	16,300	23,000



# 29 LiftCraft

## SET UP AND AREAS OF OPERATION

1. **OUTRIGGERS:** In **FORE** position, either retracted or extended.
2. **NO JIB.**
3. **WITH 10,000 LBS. REAR COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **150° over-the-front.**

### WARNING:

Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

### WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only.** Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

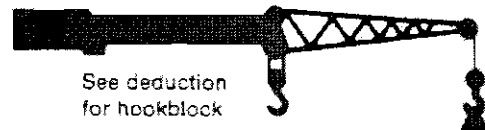


For all boom lengths from 72 ft. to 132 ft.

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	33,500	33,500
45	70°	30,500	30,500
50	67°	27,100	28,000
60	62°	18,700	23,000
70	57°	13,500	19,100
80	52°	9,800	15,800
90	46°	7,200	12,100
100	39°	5,100	9,400
110	30°	3,500	7,200
120	19°	2,200	5,500

Rating chart for — **BOOM EXTENSION**

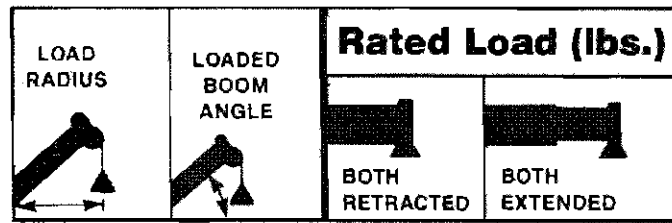
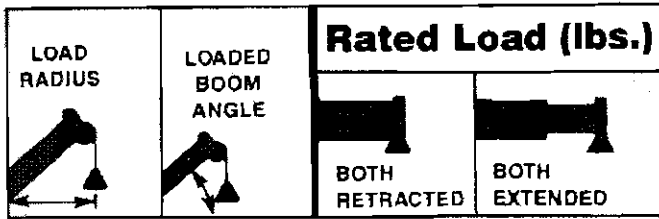
(Manual must be extended)



See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	16,500	16,500
70	67°	15,000	15,000
80	64°	11,800	13,100
90	60°	9,100	11,600
100	55°	7,000	10,400
110	51°	5,300	9,100
120	46°	4,000	7,300
130	41°	2,900	5,900
140	35°	2,000	4,700
150	29°	1,200	3,600
160	20°	—	2,700



42 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	68°	200,000	130,000
15	63°	155,000	113,000
20	55°	118,000	96,000
25	45°	81,700	74,500
30	34°	53,500	60,000
35	16°	38,500	49,600

**CAUTION:**  
Boom must be fully retracted against stops.

82 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
15 ft.	77°	100,000	100,000
20	74°	87,000	87,000
25	70°	75,500	74,500
30	66°	53,500	60,000
35	62°	38,500	49,600
40	58°	29,100	41,300
45	54°	22,500	32,500
50	49°	18,000	26,200
60	38°	11,600	17,500
70	24°	7,500	12,100

52 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	72°	180,000	130,000
15	69°	155,000	113,000
20	63°	118,000	96,000
25	56°	81,700	74,500
30	49°	53,500	60,000
35	41°	38,500	49,600
40	30°	29,100	41,300
45	14°	22,500	32,500

92 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	76°	74,000	74,000
25	73°	63,000	63,000
30	69°	53,500	53,500
35	66°	38,500	46,000
40	62°	29,100	40,200
45	59°	22,500	32,500
50	55°	18,000	26,200
60	45°	11,600	17,500
70	36°	7,500	12,100
80	23°	4,700	8,500

62 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	76°	153,000	130,000
15	73°	141,000	113,000
20	68°	118,000	96,000
25	62°	81,700	74,500
30	57°	53,500	60,000
35	51°	38,500	49,600
40	44°	29,100	41,300
45	37°	22,500	32,500
50	28°	18,000	26,200

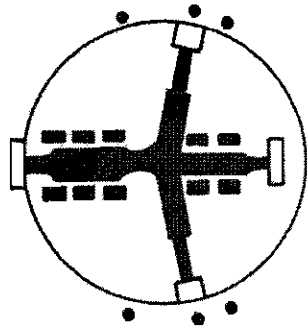
102 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
20 ft.	77°	62,000	62,000
25	75°	57,000	57,000
30	72°	50,000	50,000
35	69°	38,500	44,000
40	66°	29,100	39,000
45	62°	22,500	32,500
50	59°	18,000	26,200
60	52°	11,600	17,500
70	44°	7,500	12,100
80	35°	4,700	8,500
90	22°	2,700	5,800

72 ft. boom length manual retracted

LOAD RADIUS	LOADED BOOM ANGLE	BOTH RETRACTED	BOTH EXTENDED
12 ft.	78°	136,000	130,000
15	75°	124,000	113,000
20	71°	108,000	96,000
25	67°	81,700	74,500
30	62°	53,500	60,000
35	58°	38,500	49,600
40	52°	29,100	41,300
45	47°	22,500	32,500
50	41°	18,000	26,200
60	26°	11,600	17,500

RATING CHART 30



# 30 LiftCraft

## SET UP AND AREAS OF OPERATION

1. **OUTRIGGERS:** In **MID** position, either retracted or extended.
2. **NO JIB.**
3. **WITH 10,000 LBS. FRONT AND REAR COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **360°**.

### WARNING:

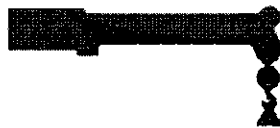
Do not attempt to lift more than rated load at load radius shown, or lift where no radius or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs. Deduct 20% from rated load for magnet or clamshell operations.

This chart is only valid for the set-up conditions above, and does not exceed 85% stability with extension stowed. **THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS.** See operating instructions for nonsymmetrical outriggers.

### WARNING:

When operating under the conditions below, the rated load is determined by **loaded boom angle only**. Load radius is given for the maximum boom length only.

Rating chart for — **MANUAL EXTENDED**

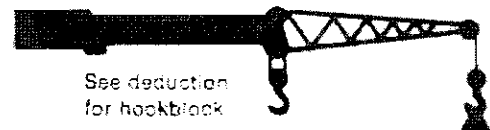


For all boom lengths from 72 ft. to 132 ft

Load Radius for 132 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
25 ft.	79°	46,000	46,000
30	77°	42,500	42,500
35	74°	37,000	37,000
40	72°	31,800	33,500
45	70°	25,900	30,500
50	67°	20,500	28,000
60	62°	14,000	20,000
70	57°	9,800	14,500
80	52°	6,800	10,700
90	46°	4,600	7,900
100	39°	3,000	5,600
110	30°	—	4,100
120	19°	—	2,700

Rating chart for — **BOOM EXTENSION**

(Manual must be extended)

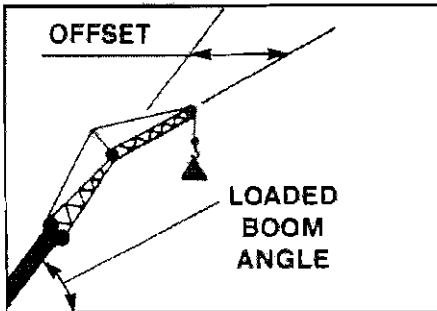


See deduction for hookblock

For all boom lengths from 114 ft. to 174 ft.

Load Radius for 174 ft. boom only.	LOADED BOOM ANGLE	Rated Load (lbs.)	
		BOTH RETRACTED	BOTH EXTENDED
35 ft.	79°	23,000	23,000
40	78°	20,000	20,000
45	76°	19,000	19,000
50	74°	18,100	18,100
60	71°	16,100	16,500
70	67°	11,700	15,000
80	64°	8,700	12,600
90	60°	6,500	9,700
100	55°	4,700	7,600
110	51°	3,400	5,900
120	46°	2,200	4,500
130	41°	1,300	3,300
140	35°	—	2,400
150	29°	—	1,500

JIB OVERHEAD



## Rated Loads (lbs.)

At 75% stability

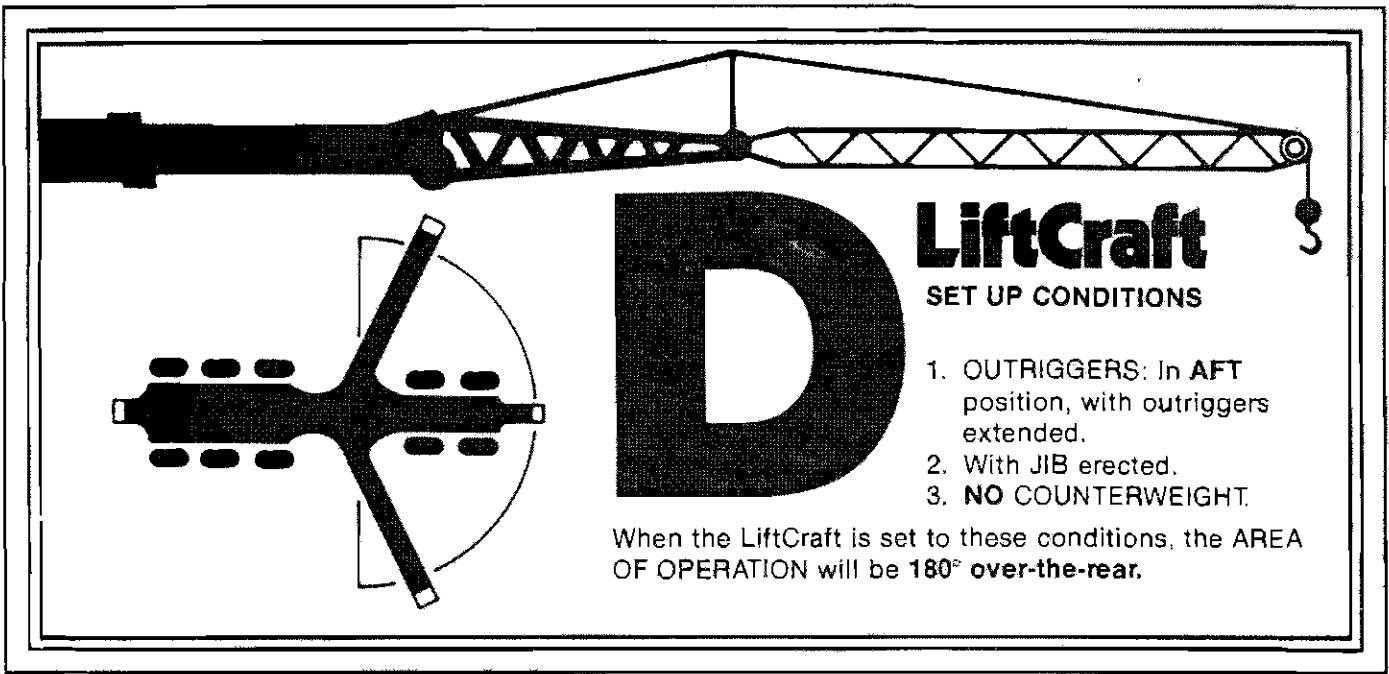


	JIB LENGTH 30 ft.	JIB LENGTH 45 ft.	JIB LENGTH 60 ft.
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0° Offset	80°	14,000	9,000	6,000
	75°	12,000	8,400	5,400
	70°	10,000	7,800	4,800
	65°	6,500	5,800	4,300
	60°	4,300	3,800	3,200
	55°	2,800	2,500	2,000

12.5° Offset	80°	9,500	8,000	4,500
	75°	9,000	7,000	4,100
	70°	8,500	6,000	3,700
	65°	6,100	5,400	3,500
	60°	4,100	3,600	3,000
	55°	2,700	2,300	1,800

25° Offset	80°	7,500	5,100	3,400
	75°	7,100	4,500	3,000
	70°	6,800	4,100	2,600
	65°	5,800	3,700	2,400
	60°	4,000	3,400	2,200
	55°	2,600	2,200	1,700



**WARNING:**

Do not attempt to lift more than rated load at boom angles shown, or lift where no angle or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs.

This chart is only valid for the set-up conditions above. Do not use the information here unless the machine configuration matches the description. Outriggers must be in the extended position when using the jib.

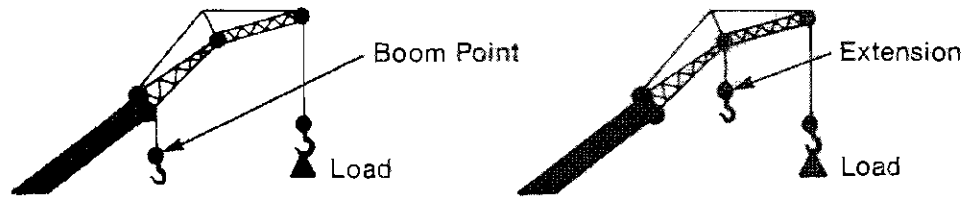
For bucket ratings, deduct 20% from jib load ratings. Clamshell and magnet operations are not permitted with jib attached.

Do not lift with jib at boom angles below 55°. Loss of stability occurs rapidly.

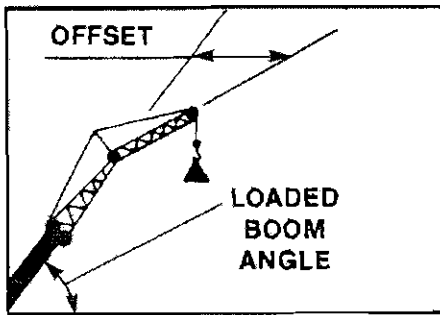
THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

**WARNING:**

Below are the deductions for an empty hook on the boom point or extension. DO NOT USE THE LOAD MOMENT DEVICE for these configurations. Deductions are in pounds from the rated load.



HOOK TYPE DESCRIPTION	Boom Point			Extension		
	30 ft. JIB	45 ft. JIB	60 ft. JIB	30 ft. JIB	45 ft. JIB	60 ft. JIB
9.5 ton ball hook		300			400	
10 ton ball hook		400			600	
30 ton hook block		700			1,000	
55 ton hook block		1,000				
100 ton hook block		1,200				



# Rated Loads (lbs.)

At 75% stability



EXTENDED ONLY

JIB LENGTH	JIB LENGTH	JIB LENGTH
30 ft.	45 ft.	60 ft.

0° Offset	80°	14,000	9,000	6,000
	75°	12,000	8,400	5,400
	70°	10,000	7,800	4,800
	65°	8,500	7,000	4,300
	60°	6,700	6,000	3,900
	55°	4,700	4,200	3,600

12.5° Offset	80°	9,500	6,000	4,500
	75°	9,000	7,000	4,100
	70°	8,500	6,000	3,700
	65°	7,800	5,400	3,500
	60°	6,300	4,800	3,200
	55°	4,500	4,000	2,900

25° Offset	80°	7,500	5,100	3,400
	75°	7,100	4,500	3,000
	70°	6,800	4,100	2,600
	65°	6,400	3,700	2,400
	60°	6,000	3,500	2,200
	55°	4,400	3,300	2,100

**LiftCraft**  
**SET UP CONDITIONS**

1. **OUTRIGGERS:** In **MID** position, with outriggers extended.
2. With **JIB** erected.
3. **WITH 10,000 Lb. FRONT COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **180° over-the-rear.**

**WARNING:**

Do not attempt to lift more than rated load at boom angles shown, or lift where no angle or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs.

This chart is only valid for the set-up conditions above. Do not use the information here unless the machine configuration matches the description. Outriggers must be in the extended position when using the jib.

For bucket ratings, deduct 20% from jib load ratings. Clamshell and magnet operations are not permitted with jib attached.

Do not lift with jib at boom angles below 55°. Loss of stability occurs rapidly.

THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

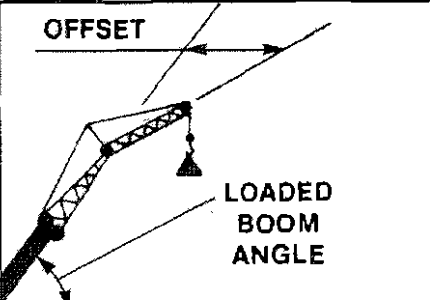

**WARNING:**

Below are the deductions for an empty hook on the boom point or extension. **DO NOT USE THE LOAD MOMENT DEVICE** for these configurations. Deductions are in pounds from the rated load.



HOOK TYPE DESCRIPTION	Boom Point			Extension		
	30 ft. JIB	45 ft. JIB	60 ft. JIB	30 ft. JIB	45 ft. JIB	60 ft. JIB
9.5 ton ball hook		300			400	
10 ton ball hook		400			600	
30 ton hook block		700			1,000	
55 ton hook block		1,000				
100 ton hook block		1,200				

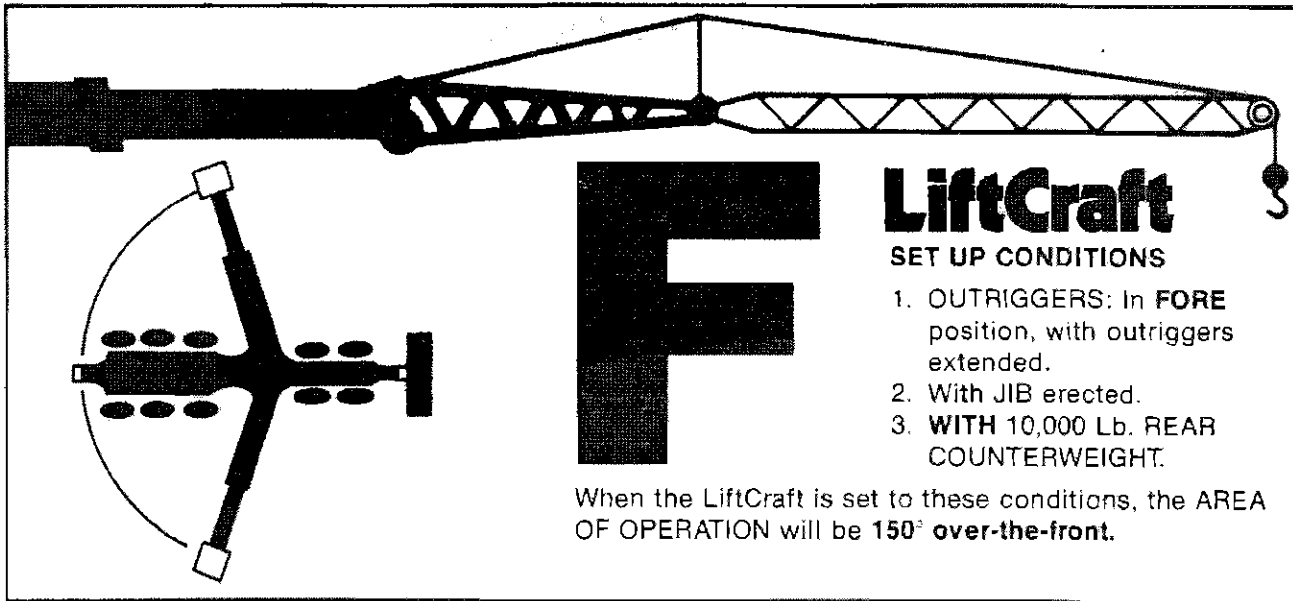


	<h2 style="text-align: center;">Rated Loads (lbs.)</h2> <p style="text-align: center;">At 75% stability</p>			 <b>EXTENDED ONLY</b>
	JIB LENGTH 30 ft.	JIB LENGTH 45 ft.	JIB LENGTH 60 ft.	

0° Offset	80°	14,000	9,000	6,000
	75°	12,000	8,400	5,400
	70°	10,000	7,800	4,800
	65°	8,500	7,000	4,300
	60°	7,500	6,000	3,900
	55°	6,500	5,000	3,600

12.5° Offset	80°	9,500	8,000	4,500
	75°	9,000	7,000	4,100
	70°	8,500	6,000	3,700
	65°	7,800	5,400	3,500
	60°	7,000	4,800	3,200
	55°	6,000	4,400	2,900

25° Offset	80°	7,500	5,100	3,400
	75°	7,100	4,500	3,000
	70°	6,800	4,100	2,600
	65°	6,400	3,700	2,400
	60°	6,000	3,500	2,200
	55°	5,600	3,300	2,100



**LiftCraft**  
SET UP CONDITIONS

1. OUTRIGGERS: In **FORE** position, with outriggers extended.
2. With JIB erected.
3. **WITH 10,000 Lb. REAR COUNTERWEIGHT.**

When the LiftCraft is set to these conditions, the AREA OF OPERATION will be **150° over-the-front.**

**WARNING:**

Do not attempt to lift more than rated load at boom angles shown, or lift where no angle or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs.

This chart is only valid for the set-up conditions above. Do not use the information here unless the machine configuration matches the description. Outriggers must be in the extended position when using the jib.

For bucket ratings, deduct 20% from jib load ratings. Clamshell and magnet operations are not permitted with jib attached.

Do not lift with jib at boom angles below 55°. Loss of stability occurs rapidly.

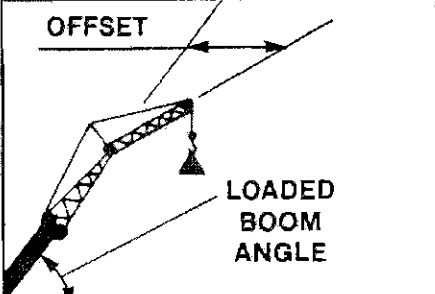

THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

**WARNING:**

Below are the deductions for an empty hook on the boom point or extension. DO NOT USE THE LOAD MOMENT DEVICE for these configurations. Deductions are in pounds from the rated load.



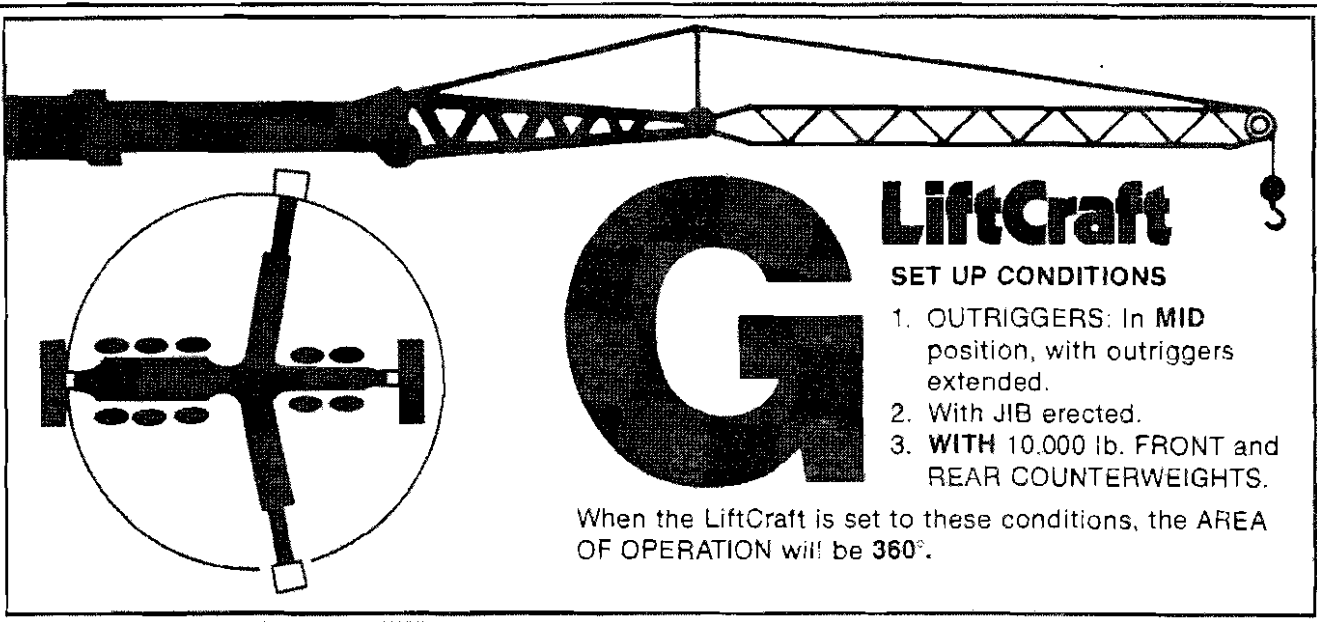
HOOK TYPE DESCRIPTION	Boom Point			Extension		
	30 ft. JIB	45 ft. JIB	60 ft. JIB	30 ft. JIB	45 ft. JIB	60 ft. JIB
9.5 ton ball hook		300			400	
10 ton ball hook		400			500	
30 ton hook block		700			1,000	
55 ton hook block		1,000				
100 ton hook block		1,200				

	<b>Rated Loads (lbs.)</b> At 75% stability			 EXTENDED ONLY
	JIB LENGTH 30 ft.	JIB LENGTH 45 ft.	JIB LENGTH 60 ft.	

0° Offset	80°	14,000	9,000	6,000
	75°	12,000	8,400	5,400
	70°	10,000	7,800	4,800
	65°	8,500	7,000	4,300
	60°	6,200	5,600	3,900
	55°	4,400	3,900	3,400

12.5° Offset	80°	9,500	8,000	4,500
	75°	9,000	7,000	4,100
	70°	8,500	6,000	3,700
	65°	7,800	5,400	3,500
	60°	5,900	4,800	3,200
	55°	4,200	3,700	2,900

25° Offset	80°	7,500	5,100	3,400
	75°	7,100	4,500	3,000
	70°	6,800	4,100	2,600
	65°	6,400	3,700	2,400
	60°	5,700	3,500	2,200
	55°	4,100	3,300	2,100



**LiftCraft**

**SET UP CONDITIONS**

1. **OUTRIGGERS:** In **MID** position, with outriggers extended.
2. With **JIB** erected.
3. **WITH 10,000 lb. FRONT and REAR COUNTERWEIGHTS.**

When the LiftCraft is set to these conditions, the **AREA OF OPERATION** will be **360°**.

**WARNING:**

Do not attempt to lift more than rated load at boom angles shown, or lift where no angle or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs.

This chart is only valid for the set-up conditions above. Do not use the information here unless the machine configuration matches the description. Outriggers must be in the extended position when using the jib.

For bucket ratings, deduct 20% from jib load ratings. Clamshell and magnet operations are not permitted with jib attached.

Do not lift with jib at boom angles below 55°. Loss of stability occurs rapidly.

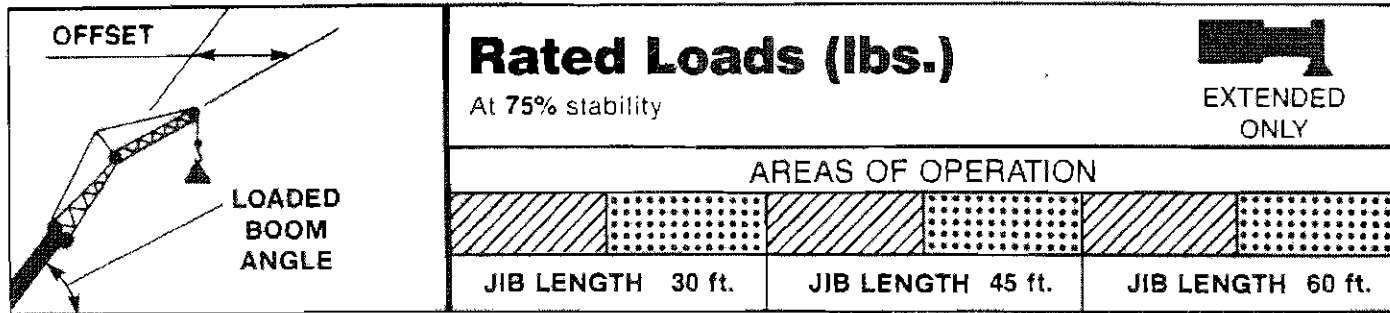
THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

**WARNING:**

Below are the deductions for an empty hook on the boom point or extension. **DO NOT USE THE LOAD MOMENT DEVICE** for these configurations. Deductions are in pounds from the rated load.



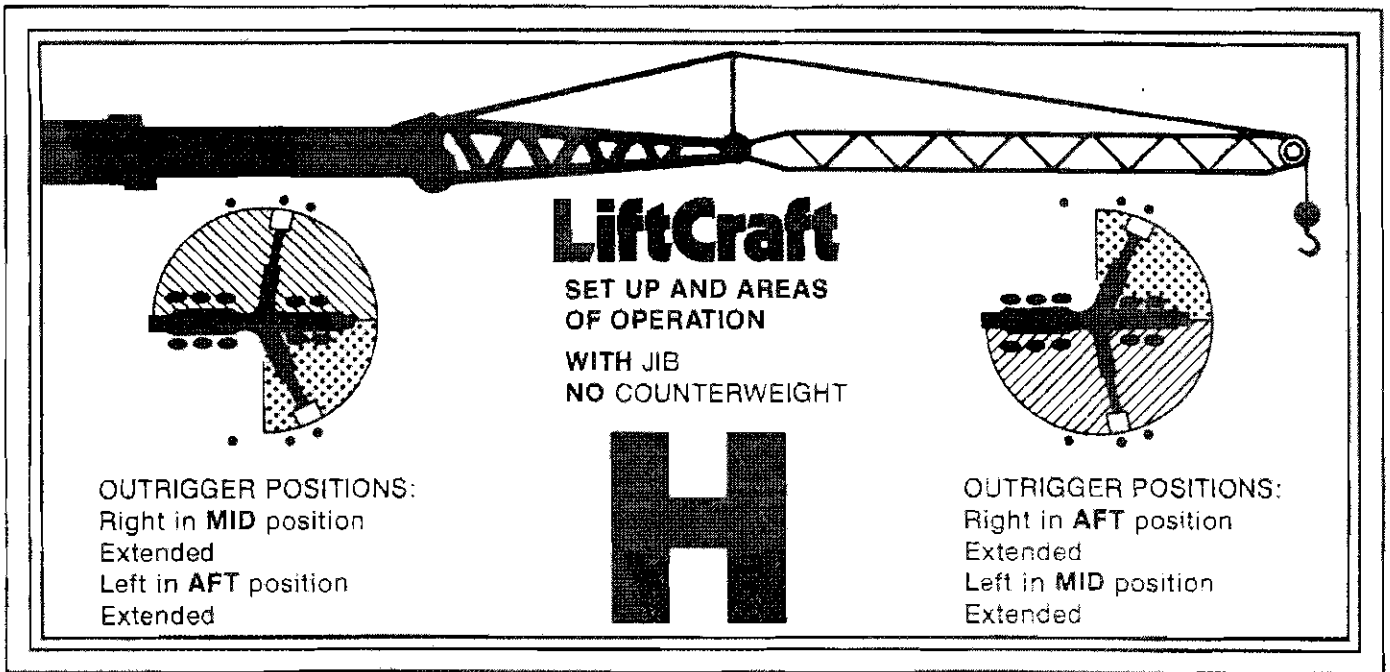
HOOK TYPE DESCRIPTION	Boom Point			Extension		
	30 ft. JIB	45 ft. JIB	60 ft. JIB	30 ft. JIB	45 ft. JIB	60 ft. JIB
9.5 ton ball hook		300			400	
10 ton ball hook		400			600	
30 ton hook block		700			1,000	
55 ton hook block		1,350				
100 ton hook block		1,200				



Offset	Boom Angle	JIB LENGTH 30 ft.		JIB LENGTH 45 ft.		JIB LENGTH 60 ft.	
		Area 1	Area 2	Area 1	Area 2	Area 1	Area 2
0°	80°	14,000	14,000	9,000	9,000	6,000	6,000
	75°	12,000	12,000	8,400	8,400	5,400	5,400
	70°	9,400	10,000	7,800	7,800	4,800	4,800
	65°	6,100	6,500	5,500	5,800	4,300	4,300
	60°	4,100	4,300	3,600	3,800	3,100	3,200
	55°	2,700	2,800	2,300	2,500	1,900	2,000

Offset	Boom Angle	JIB LENGTH 30 ft.		JIB LENGTH 45 ft.		JIB LENGTH 60 ft.	
		Area 1	Area 2	Area 1	Area 2	Area 1	Area 2
12.5°	80°	9,500	9,500	8,000	8,000	4,500	4,500
	75°	9,000	9,000	7,000	7,000	4,100	4,100
	70°	8,500	8,500	6,000	6,000	3,700	3,700
	65°	5,800	6,100	5,200	5,400	3,500	3,500
	60°	3,900	4,100	3,400	3,600	2,800	3,000
	55°	2,500	2,700	2,200	2,300	1,700	1,800

Offset	Boom Angle	JIB LENGTH 30 ft.		JIB LENGTH 45 ft.		JIB LENGTH 60 ft.	
		Area 1	Area 2	Area 1	Area 2	Area 1	Area 2
25°	80°	7,500	7,500	5,100	5,100	3,400	3,400
	75°	7,100	7,100	4,500	4,500	3,000	3,000
	70°	6,800	6,800	4,100	4,100	2,600	2,600
	65°	5,400	5,800	3,700	3,700	2,400	2,400
	60°	3,700	4,000	3,200	3,400	2,200	2,200
	55°	2,500	2,600	2,100	2,200	1,600	1,700



**WARNING:**

Do not attempt to lift more than rated load at boom angles shown, or lift where no angle or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs.

This chart is only valid for the set-up conditions above. Do not use the information here unless the machine configuration matches the description. Outriggers must be in the extended position when using the jib.

For bucket ratings, deduct 20% from jib load ratings. Clamshell and magnet operations are not permitted with jib attached.

Do not lift with jib at boom angles below 55°. Loss of stability occurs rapidly.

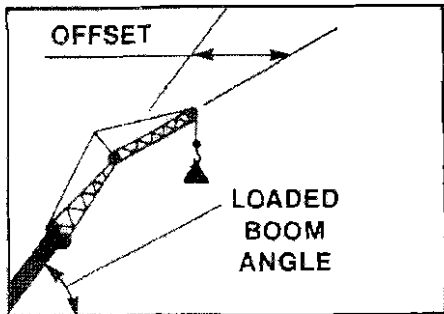
THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

**WARNING:**

Below are the deductions for an empty hook on the boom point or extension. DO NOT USE THE LOAD MOMENT DEVICE for these configurations. Deductions are in pounds from the rated load.



HOOK TYPE DESCRIPTION	Boom Point			Extension		
	30 ft. JIB	45 ft. JIB	60 ft. JIB	30 ft. JIB	45 ft. JIB	60 ft. JIB
9.5 ton ball hook		300			400	
10 ton ball hook		400			600	
30 ton hook block		700			1,000	
55 ton hook block		1,000				
100 ton hook block		1,200				



# Rated Loads (lbs.)

At 75% stability

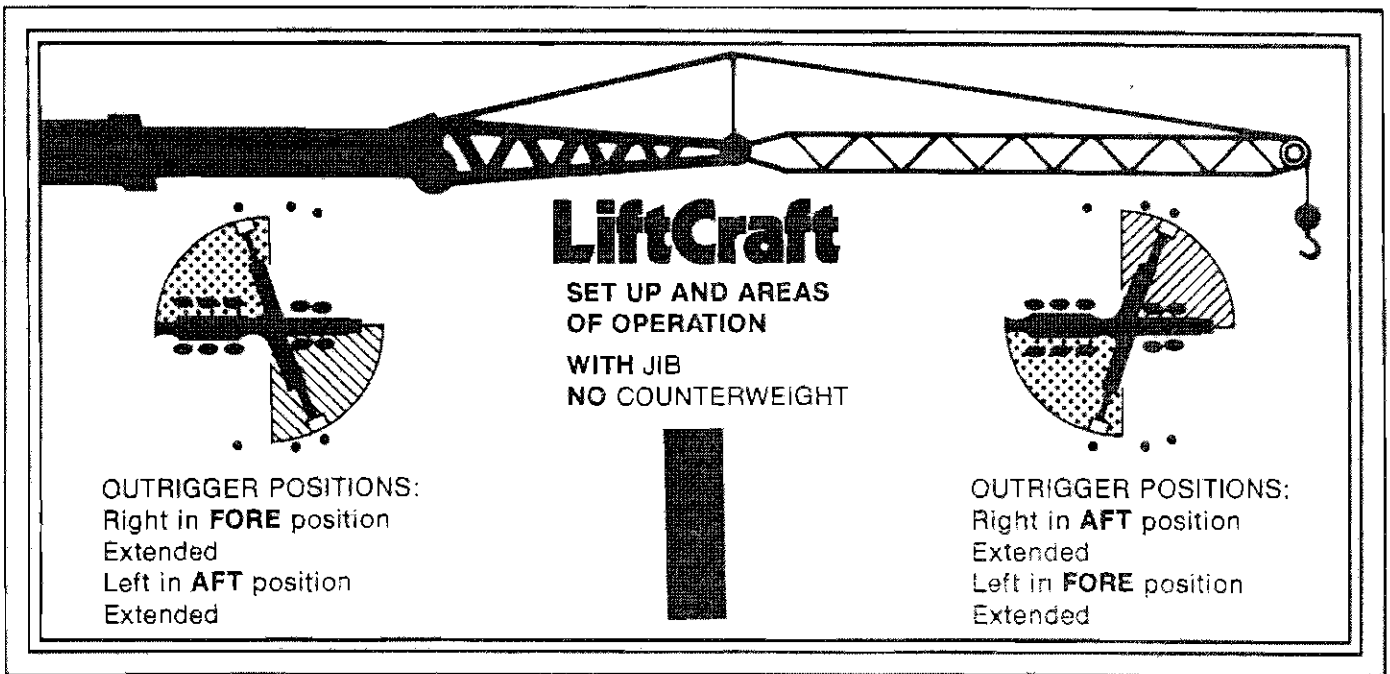


AREAS OF OPERATION					
JIB LENGTH 30 ft.		JIB LENGTH 45 ft.		JIB LENGTH 60 ft.	

Offset	Boom Angle	JIB LENGTH 30 ft.		JIB LENGTH 45 ft.		JIB LENGTH 60 ft.	
		Area 1	Area 2	Area 1	Area 2	Area 1	Area 2
0°	80°	14,000	14,000	9,000	9,000	6,000	6,000
	75°	12,000	12,000	8,400	8,400	5,400	5,400
	70°	9,700	10,000	7,800	7,800	4,800	4,800
	65°	6,300	7,900	5,600	7,000	4,300	4,300
	60°	4,100	5,400	3,700	4,800	3,100	3,900
	55°	2,700	3,800	2,400	3,300	1,900	2,800

Offset	Boom Angle	JIB LENGTH 30 ft.		JIB LENGTH 45 ft.		JIB LENGTH 60 ft.	
		Area 1	Area 2	Area 1	Area 2	Area 1	Area 2
12.5°	80°	9,500	9,500	8,000	8,000	4,500	4,500
	75°	9,000	9,000	7,000	7,000	4,100	4,100
	70°	8,500	8,500	6,000	6,000	3,700	3,700
	65°	5,900	7,300	5,300	5,400	3,500	3,500
	60°	4,000	5,200	3,400	4,400	2,800	3,200
	55°	2,600	3,600	2,200	3,200	1,700	2,600

Offset	Boom Angle	JIB LENGTH 30 ft.		JIB LENGTH 45 ft.		JIB LENGTH 60 ft.	
		Area 1	Area 2	Area 1	Area 2	Area 1	Area 2
25°	80°	7,500	7,500	5,100	5,100	3,400	3,400
	75°	7,100	7,100	4,500	4,500	3,000	3,000
	70°	6,800	6,800	4,100	4,100	2,800	2,600
	65°	5,600	6,400	3,700	3,700	2,400	2,400
	60°	3,800	5,000	3,200	3,500	2,200	2,200
	55°	2,500	3,500	2,100	3,000	1,600	2,100



**WARNING:**

Do not attempt to lift more than rated load at boom angles shown, or lift where no angle or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs.

This chart is only valid for the set-up conditions above. Do not use the information here unless the machine configuration matches the description. Outriggers must be in the extended position when using the jib.

For bucket ratings, deduct 20% from jib load ratings. Clamshell and magnet operations are not permitted with jib attached.

Do not lift with jib at boom angles below 55°. Loss of stability occurs rapidly.

THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

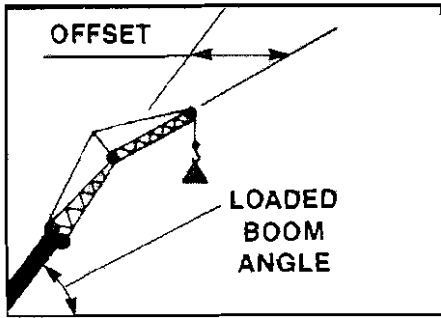
**WARNING:**

Below are the deductions for an empty hook on the boom point or extension. **DO NOT USE THE LOAD MOMENT DEVICE** for these configurations. Deductions are in pounds from the rated load.



HOOK TYPE DESCRIPTION	Boom Point			Extension		
	30 ft. JIB	45 ft. JIB	60 ft. JIB	30 ft. JIB	45 ft. JIB	60 ft. JIB
9.5 ton ball hook		300			400	
10 ton ball hook		400			500	
30 ton hook block		700			1,000	
55 ton hook block		1,000				
100 ton hook block		1,200				





# Rated Loads (lbs.)

At 75% stability



EXTENDED ONLY

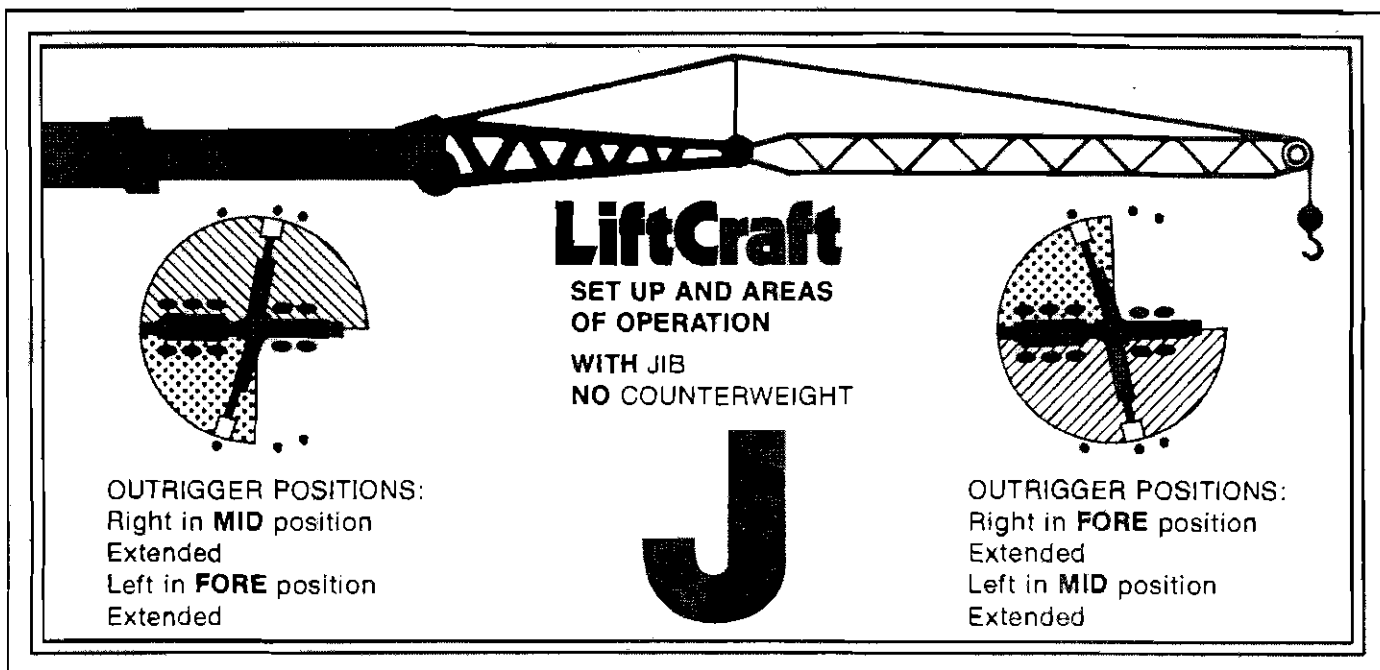
## AREAS OF OPERATION

JIB LENGTH 30 ft.		JIB LENGTH 45 ft.		JIB LENGTH 60 ft.			

0° Offset	80°	14,000	14,000	9,000	9,000	6,000	6,000
	75°	12,000	12,000	8,400	8,400	5,400	5,400
	70°	9,700	10,000	7,800	7,800	4,800	4,800
	65°	6,300	8,000	5,600	7,000	4,300	4,300
	60°	4,100	5,500	3,700	4,900	3,100	3,900
	55°	2,700	3,900	2,400	3,400	1,900	2,900

12.5° Offset	80°	9,500	9,500	8,000	8,000	4,500	4,500
	75°	9,000	9,000	7,000	7,000	4,100	4,100
	70°	8,500	8,500	6,000	6,000	3,700	3,700
	65°	5,900	7,400	5,300	5,400	3,500	3,500
	60°	4,000	5,300	3,400	4,500	2,800	3,200
	55°	2,600	3,700	2,200	3,300	1,700	2,700

25° Offset	80°	7,500	7,500	5,100	5,100	3,400	3,400
	75°	7,100	7,100	4,500	4,500	3,000	3,000
	70°	6,800	6,800	4,100	4,100	2,600	2,600
	65°	5,600	6,400	3,700	3,700	2,400	2,400
	60°	3,800	5,100	3,200	3,500	2,200	2,200
	55°	2,500	3,600	2,100	3,100	1,600	2,100



**WARNING:**

Do not attempt to lift more than rated load at boom angles shown, or lift where no angle or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs.

This chart is only valid for the set-up conditions above. Do not use the information here unless the machine configuration matches the description. Outriggers must be in the extended position when using the jib.

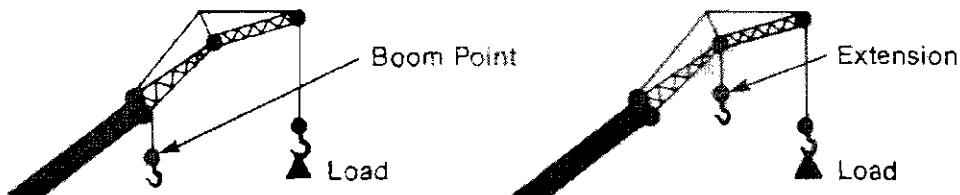
For bucket ratings, deduct 20% from jib load ratings. Clamshell and magnet operations are not permitted with jib attached.

Do not lift with jib at boom angles below 55°. Loss of stability occurs rapidly.

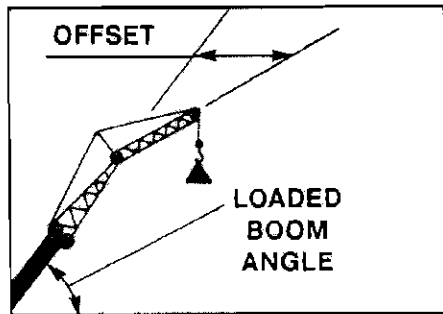
THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

**WARNING:**

Below are the deductions for an empty hook on the boom point or extension. **DO NOT USE THE LOAD MOMENT DEVICE** for these configurations. Deductions are in pounds from the rated load.



HOOK TYPE DESCRIPTION	Boom Point			Extension		
	30 ft. JIB	45 ft. JIB	60 ft. JIB	30 ft. JIB	45 ft. JIB	60 ft. JIB
9.5 ton ball hook		300			400	
10 ton ball hook		400			600	
30 ton hook block		700			1,000	
55 ton hook block		1,000				
100 ton hook block		1,200				



# Rated Loads (lbs.)

At 75% stability



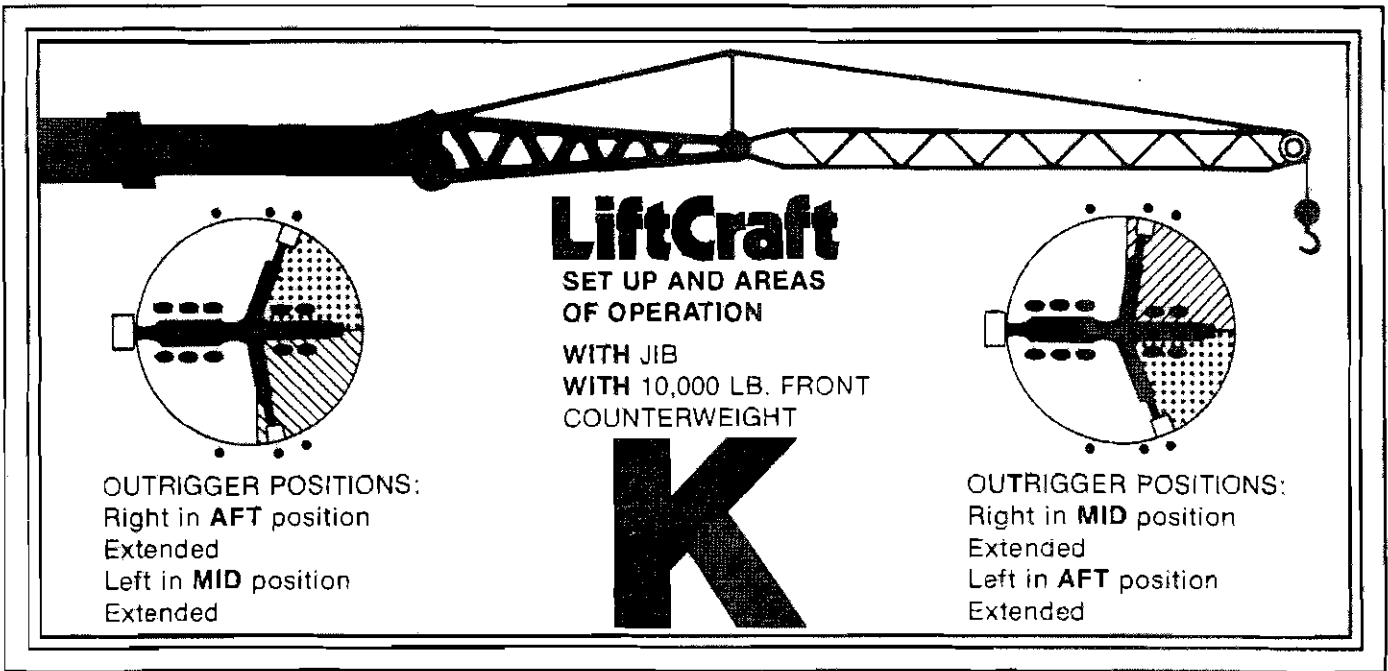
## AREAS OF OPERATION

JIB LENGTH 30 ft.	JIB LENGTH 45 ft.	JIB LENGTH 60 ft.
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Offset	Boom Angle	JIB LENGTH 30 ft.		JIB LENGTH 45 ft.		JIB LENGTH 60 ft.	
		30 ft.	45 ft.	45 ft.	60 ft.	60 ft.	30 ft.
0°	80°	14,000	14,000	9,000	9,000	6,000	6,000
	75°	12,000	12,000	8,400	8,400	5,400	5,400
	70°	10,000	10,000	7,800	7,800	4,800	4,800
	65°	8,500	8,500	7,000	7,000	4,300	4,300
	60°	6,700	7,200	6,000	6,000	3,900	3,900
	55°	4,700	5,200	4,200	4,800	3,600	3,600

Offset	Boom Angle	JIB LENGTH 30 ft.		JIB LENGTH 45 ft.		JIB LENGTH 60 ft.	
		30 ft.	45 ft.	45 ft.	60 ft.	60 ft.	30 ft.
12.5°	80°	9,500	9,500	8,000	8,000	4,500	4,500
	75°	9,000	9,000	7,000	7,000	4,100	4,100
	70°	8,500	8,500	6,000	6,000	3,700	3,700
	65°	7,800	7,800	5,400	5,400	3,500	3,500
	60°	6,300	7,000	4,800	4,800	3,200	3,200
	55°	4,500	5,200	4,000	4,400	2,900	2,900

Offset	Boom Angle	JIB LENGTH 30 ft.		JIB LENGTH 45 ft.		JIB LENGTH 60 ft.	
		30 ft.	45 ft.	45 ft.	60 ft.	60 ft.	30 ft.
25°	80°	7,500	7,500	5,100	5,100	3,400	3,400
	75°	7,100	7,100	4,500	4,500	3,000	3,000
	70°	6,800	6,800	4,100	4,100	2,600	2,600
	65°	6,400	6,400	3,700	3,700	2,400	2,400
	60°	6,000	6,000	3,500	3,500	2,200	2,200
	55°	4,400	5,000	3,300	3,300	2,100	2,100



**WARNING:**

Do not attempt to lift more than rated load at boom angles shown, or lift where no angle or load is listed, as LiftCraft may tip or collapse. Attempts to lift more than rated loads shown above or below heavy line may cause structural damage to machine before tipping occurs.

This chart is only valid for the set-up conditions above. Do not use the information here unless the machine configuration matches the description. Outriggers must be in the extended position when using the jib.

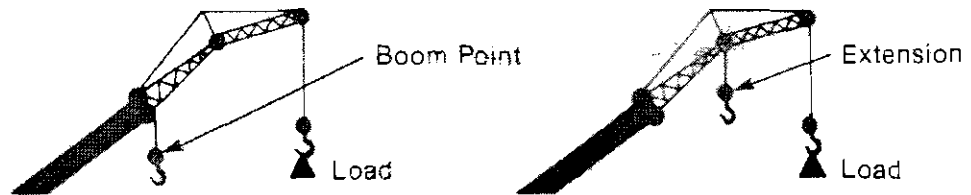
For bucket ratings, deduct 20% from jib load ratings. Clamshell and magnet operations are not permitted with jib attached.

Do not lift with jib at boom angles below 55°. Loss of stability occurs rapidly.

THE LOAD MOMENT DEVICE IS NOT CALIBRATED FOR THESE OUTRIGGER POSITIONS. See operating instructions for nonsymmetrical outriggers.

**WARNING:**

Below are the deductions for an empty hook on the boom point or extension. **DO NOT USE THE LOAD MOMENT DEVICE** for these configurations. Deductions are in pounds from the rated load.



HOOK TYPE DESCRIPTION	Boom Point			Extension		
	30 ft. JIB	45 ft. JIB	60 ft. JIB	30 ft. JIB	45 ft. JIB	60 ft. JIB
9.5 ton ball hook		300			400	
10 ton ball hook		400			600	
30 ton hook block		700			1,000	
55 ton hook block		1,000				
100 ton hook block		1,200				