

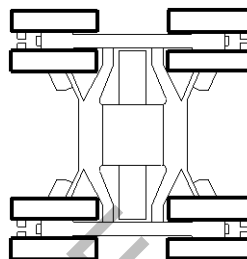
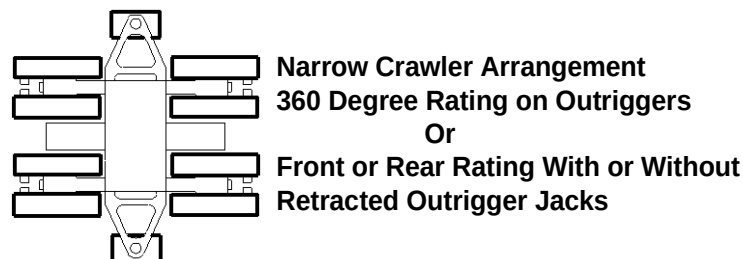
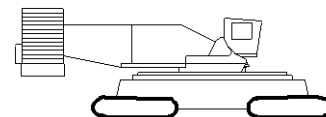
# Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On  
Boom No. 80 With 140 Ft. Mast No. 81  
494,700 Lb. Crane Counterweight  
200,000 Lb. Carbody Counterweight  
0 Lb. Wheeled Counterweight

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

21000  
MAX-ER



Wide Crawler Arrangement  
360 Degree Rating

**LIFTING CAPACITIES:** Lifting capacities for various boom lengths, boom angles, luffing jib lengths, and luffing jib operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (\*).

**360 degree operation requires set outrigger jacks for narrow crawler arrangement.**

Capacities indicated by (b) require 37,000 Lb. minimum weight suspended beneath luffing jib point.

**Caution: Do not luff into area indicated by (c) with 37,000 Lb. minimum weight.** Luffing jib will not luff down and luffing hoist wire rope may overhaul luffing jib and cause wire rope damage or failure.

Swing and travel (forward or side crawl) requires proper position of counterweight wheels. Refer to operators manual for wheel positioning. Exit MAX-ER mode before operating without wheeled counterweight.

Simultaneous hoisting of both load drums is required for even block travel.

Upper luffing jib point capacity for liftcrane service with single part whip line is 48,800 Lbs. or 97,600 Lbs. with two part whip line. In all cases, upper luffing jib point capacities cannot exceed those listed for main luffing jib capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc. beneath boom and luffing jib point sheaves is considered part of luffing jib load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

## OPERATING CONDITIONS

**General:** Machine to operate on a firm uniformly supporting surface with gantry in intermediate position, mast up and bearing turntable level within a tolerance of 1/2 in. in 10 Ft. and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to luffing jib rigging assembly **No. 192589** and Wire Rope Specification chart **No. 8201-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

**Narrow Crawler Arrangement:** Narrow crawler arrangement (30 Ft. 0 in.) requires outriggers with jacks set for 360 degree operation (no travel). Refer to operators manual for jacking instructions. Operation restricted to limited swing over front or rear with outrigger jacks retracted or outriggers removed. Refer to Operating Range Diagram chart **No. 8141-A**.

**Wide Crawler Arrangement:** Operation with wide crawler arrangement (47 Ft. 6 in.) is 360 degrees.

## MACHINE TRAVEL

**General:** Machine to travel on a firm, level, and uniformly supporting surface with boom and luffing jib within angle range shown in capacity chart. Refer to Swing and Travel Specification chart **No. 8203-A**.

**Narrow Crawler Arrangement:** Narrow crawler arrangement (30 Ft. 0 in.) travel allowed only with upperworks centered over front or rear of lowerworks (no swing) with outrigger jacks retracted or outriggers removed.

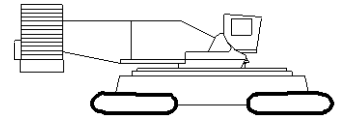
**Wide Crawler Arrangement:** Wide crawler arrangement (47 Ft. 6 in.) travel allowed with 360 degree rating.

# Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On  
Boom No. 80 With 140 Ft. Mast No. 81  
494,700 Lb. Crane Counterweight  
200,000 Lb. Carbody Counterweight  
0 Lb. Wheeled Counterweight  
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**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts. Luffing jib angle is angle between horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

**LUFFING JIB POINT ELEVATION:** Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib point shaft.

**MACHINE EQUIPMENT:** Machine equipped with lowerworks carbody beams, outriggers, eight 16 Ft. 4 in. crawlers, 48 in. treads, 140 Ft. mast, 28 Ft. retractable gantry,

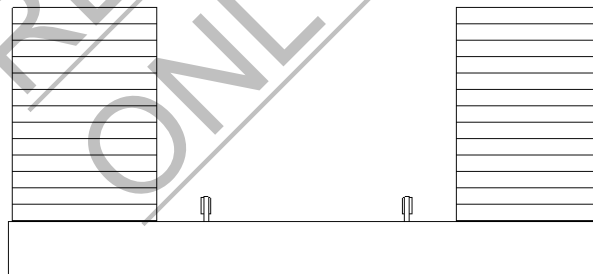
20 part boom hoist reeving, boom support straps, 22 part luffing jib hoist reeving, luffing jib and backstay support straps, 494,700 Lb. crane counterweight, two 53,500 Lb. and two 46,500 Lb. carbody counterweights and without wheeled counterweight.

**Warning:** Front carbody platform must be removed when raising or lowering boom.

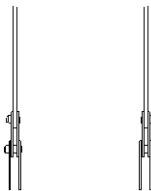
**Warning:** Narrow crawler arrangement requires set outrigger jacks to swing beyond front or rear operating range.

Machine may tip over side with outrigger jacks retracted or removed. Refer to wind folio for restrictions.

**WARNING:** Check amount of crane counterweight and wheeled counterweight on machine before use of this chart.



494,700 Lb. Crane Counterweight  
26 Side Boxes



0 Lb. Wheeled Counterweight  
(without shear frame)

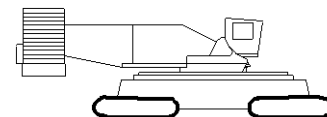
# Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On  
Boom No. 80 With 140 Ft. Mast No. 81  
494,700 Lb. Crane Counterweight  
200,000 Lb. Carbody Counterweight  
0 Lb. Wheeled Counterweight

Narrow or Wide Crawler Arrangement - 360 Degree Rating

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| WITH OR WITHOUT BOOM AND/OR JIB CATWALKS                                                                              |                               |                                         |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------|
| Maximum Boom and Luffing Jib Lengths<br>Lifted Unassisted Using Jack-Knife Method<br>With 0 Lb. Wheeled Counterweight |                               |                                         |
| Boom<br>Length<br>Feet                                                                                                | Luffing Jib<br>No. 81<br>Feet | Boom to Luffing<br>Jib Angle<br>Degrees |
| Over End of Blocked Crawlers                                                                                          |                               |                                         |
| 180                                                                                                                   | 120 - 300                     | 60                                      |
| 200                                                                                                                   | 120 - 240                     | 60                                      |
| Over End of Unblocked Crawlers                                                                                        |                               |                                         |
| 180                                                                                                                   | 120 - 300                     | 60                                      |
| 200                                                                                                                   | 120 - 180                     | 60                                      |
| Load blocks, hook and weight ball on ground until boom and luffing jib are erected.                                   |                               |                                         |

## RAISING AND LOWERING PROCEDURE

Boom and luffing jib combinations must be raised and lowered using jack-knife method.

Release swing brake (disengage swing lock) and slowly raise boom while jib point dolly is allowed to roll on ground. Tension should be applied to luffing jib hoist to keep jib strut off luffing jib during boom raising. Boom up until boom to luffing jib angle reaches value specified in table or jib is vertical, whichever occurs first. Tighten luffing jib suspension with luffing jib hoist. Boom and luffing jib are then raised together using boom hoist until boom reaches desired boom operating angle. Luffing jib radius must be within capacity chart before swinging over side of machine.

Position boom at 85 degrees prior to lowering luffing jib. Lower luffing jib until boom to luffing jib angle reaches value specified in table. Lower boom until luffing jib point is just above ground. If luffing jib is hanging vertical, raise luffing jib a few degrees forward of vertical. Position dolly under jib point, then lower jib point onto dolly. Release swing brake (disengage swing lock) and continue to lower boom while luffing jib rolls along ground. Keep enough tension on luffing jib hoist to keep jib strut off luffing jib.

**NOTE:** Upper jib point cannot be installed until boom and jib are jack-knifed into position and must be removed before contacting ground when lowering.

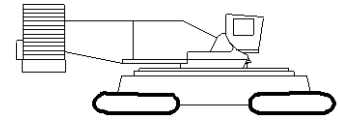
**CAUTION:** Do not under any condition allow boom to luffing jib angle to become less than 60 degrees.

# Liftcrane Luffing Jib Capacities

**21000  
MAX-ER**

Luffing Jib No. 81 On  
Boom No. 80 With 140 Ft. Mast No. 81  
494,700 Lb. Crane Counterweight  
200,000 Lb. Carbody Counterweight  
0 Lb. Wheeled Counterweight  
Narrow or Wide Crawler Arrangement - 360 Degree Rating

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**180 Ft. Boom, 120 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 60                           |                         |                               | c                                 |                         |                               |                                   |
| 65                           |                         |                               | c                                 |                         |                               |                                   |
| 70                           |                         |                               | c                                 |                         |                               |                                   |
| 75                           | 66.4                    | 300.2                         | 522,400*b                         |                         |                               |                                   |
| 80                           | 63.7                    | 297.7                         | 485,500*b                         |                         |                               |                                   |
| 85                           | 61.0                    | 294.9                         | 453,000*b                         |                         |                               | c                                 |
| 90                           | 58.2                    | 291.8                         | 424,100*b                         | 66.8                    | 298.3                         | 395,400*b                         |
| 95                           | 55.2                    | 288.3                         | 398,300*b                         | 64.1                    | 295.8                         | 371,300*b                         |
| 100                          | 52.2                    | 284.4                         | 375,000*                          | 61.4                    | 293.1                         | 349,600*b                         |
| 105                          | 49.1                    | 280.1                         | 353,900*                          | 58.6                    | 290.0                         | 329,900*b                         |
| 110                          | 45.7                    | 275.2                         | 334,800*                          | 55.7                    | 286.5                         | 312,100*b                         |
| 115                          | 42.2                    | 269.7                         | 317,200*                          | 52.7                    | 282.7                         | 295,700*                          |
| 120                          | 38.4                    | 263.5                         | 301,000*                          | 49.5                    | 278.4                         | 280,700*                          |
| 125                          | 34.2                    | 256.3                         | 286,000*                          | 46.2                    | 273.7                         | 266,900*                          |
| 130                          | 29.4                    | 247.7                         | 272,100*                          | 42.7                    | 268.3                         | 254,000*                          |
| 135                          | 23.8                    | 237.0                         | 258,900*                          | 38.9                    | 262.2                         | 242,000*                          |
| 140                          | 16.2                    | 221.9                         | 246,100*                          | 34.8                    | 255.1                         | 230,800*                          |
| 145                          |                         |                               |                                   | 30.2                    | 246.7                         | 220,300*                          |
| 150                          |                         |                               |                                   | 24.7                    | 236.4                         | 210,200*                          |
| 155                          |                         |                               |                                   | 17.5                    | 222.3                         | 200,400*                          |

**180 Ft. Boom, 140 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 65                           |                         |                               | c                                 |                         |                               |                                   |
| 70                           |                         |                               | c                                 |                         |                               |                                   |
| 75                           | 69.9                    | 322.0                         | 519,700*b                         |                         |                               |                                   |
| 80                           | 67.7                    | 319.9                         | 482,800*b                         |                         |                               |                                   |
| 85                           | 65.5                    | 317.6                         | 450,400*b                         |                         |                               |                                   |
| 90                           | 63.2                    | 315.0                         | 421,600*b                         |                         |                               |                                   |
| 95                           | 60.8                    | 312.2                         | 396,000*b                         | 68.0                    | 317.9                         | 367,700*b                         |
| 100                          | 58.4                    | 309.1                         | 372,800*                          | 65.8                    | 315.7                         | 346,200*b                         |
| 105                          | 56.0                    | 305.7                         | 352,000*                          | 63.5                    | 313.1                         | 326,700*b                         |
| 110                          | 53.4                    | 302.0                         | 333,000*                          | 61.2                    | 310.4                         | 309,000*b                         |
| 115                          | 50.8                    | 297.9                         | 315,600*                          | 58.8                    | 307.3                         | 292,800*                          |
| 120                          | 48.0                    | 293.4                         | 299,700*                          | 56.3                    | 304.0                         | 278,000*                          |
| 125                          | 45.1                    | 288.5                         | 285,000*                          | 53.8                    | 300.3                         | 264,300*                          |
| 130                          | 42.1                    | 282.9                         | 271,400*                          | 51.1                    | 296.3                         | 251,700*                          |
| 135                          | 38.8                    | 276.8                         | 258,700*                          | 48.4                    | 291.8                         | 239,900*                          |
| 140                          | 35.3                    | 269.8                         | 246,900*                          | 45.5                    | 286.9                         | 229,000*                          |
| 145                          | 31.5                    | 261.8                         | 235,800*                          | 42.5                    | 281.5                         | 218,800*                          |
| 150                          | 27.1                    | 252.4                         | 225,400*                          | 39.3                    | 275.4                         | 209,200*                          |
| 155                          | 21.9                    | 240.7                         | 215,400*                          | 35.8                    | 268.6                         | 200,200*                          |
| 160                          | 14.9                    | 224.4                         | 205,600*                          | 32.0                    | 260.8                         | 191,600*                          |
| 165                          |                         |                               |                                   | 27.8                    | 251.6                         | 183,500*                          |
| 170                          |                         |                               |                                   | 22.7                    | 240.3                         | 175,600*                          |
| 175                          |                         |                               |                                   | 16.1                    | 225.0                         | 167,900*                          |

Capacities indicated by (b) require  
37,000 Lb. minimum weight suspended  
beneath luffing jib point.

Do not luff into area indicated by (c)  
with 37,000 Lb. minimum weight  
(see CAUTION on page 1).

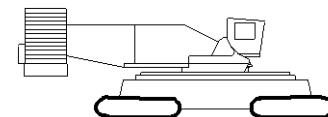
# Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On  
Boom No. 80 With 140 Ft. Mast No. 81  
494,700 Lb. Crane Counterweight  
200,000 Lb. Carbody Counterweight  
0 Lb. Wheeled Counterweight

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested  
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The Scope of ANSI B30.5

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MAX-ER



180 Ft. Boom, 160 Ft. Jib

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 70                           |                         |                               | <sup>c</sup>                      |                         |                               |                                   |
| 75                           | 72.6                    | 343.2                         | 517,400* <sup>b</sup>             |                         |                               |                                   |
| 80                           | 70.7                    | 341.5                         | 480,600* <sup>b</sup>             |                         |                               |                                   |
| 85                           | 68.7                    | 339.5                         | 448,300* <sup>b</sup>             |                         |                               |                                   |
| 90                           | 66.8                    | 337.3                         | 419,600* <sup>b</sup>             |                         |                               |                                   |
| 95                           | 64.8                    | 335.0                         | 394,000* <sup>b</sup>             |                         |                               |                                   |
| 100                          | 62.8                    | 332.4                         | 371,000*                          | 69.0                    | 337.5                         | 343,500* <sup>b</sup>             |
| 105                          | 60.7                    | 329.5                         | 350,200*                          | 67.1                    | 335.4                         | 324,100* <sup>b</sup>             |
| 110                          | 58.6                    | 326.5                         | 331,300*                          | 65.1                    | 333.0                         | 306,500* <sup>b</sup>             |
| 115                          | 56.5                    | 323.1                         | 314,000*                          | 63.1                    | 330.5                         | 290,400*                          |
| 120                          | 54.3                    | 319.5                         | 298,200*                          | 61.0                    | 327.7                         | 275,600*                          |
| 125                          | 52.0                    | 315.6                         | 283,600*                          | 58.9                    | 324.6                         | 262,100*                          |
| 130                          | 49.6                    | 311.4                         | 270,200*                          | 56.8                    | 321.4                         | 249,600*                          |
| 135                          | 47.2                    | 306.7                         | 257,700*                          | 54.6                    | 317.8                         | 238,000*                          |
| 140                          | 44.7                    | 301.7                         | 246,100*                          | 52.3                    | 313.9                         | 227,200*                          |
| 145                          | 42.0                    | 296.2                         | 235,300*                          | 50.0                    | 309.7                         | 217,100*                          |
| 150                          | 39.2                    | 290.1                         | 225,100*                          | 47.6                    | 305.2                         | 207,700*                          |
| 155                          | 36.2                    | 283.3                         | 215,600*                          | 45.0                    | 300.2                         | 198,900*                          |
| 160                          | 32.9                    | 275.7                         | 206,600*                          | 42.4                    | 294.7                         | 190,500*                          |
| 165                          | 29.3                    | 267.0                         | 198,000*                          | 39.6                    | 288.7                         | 182,700*                          |
| 170                          | 25.2                    | 256.8                         | 189,900*                          | 36.6                    | 282.1                         | 175,300*                          |
| 175                          | 20.4                    | 244.2                         | 182,000*                          | 33.4                    | 274.6                         | 168,200*                          |
| 180                          | 13.8                    | 226.7                         | 174,200*                          | 29.9                    | 266.1                         | 161,400*                          |
| 185                          |                         |                               |                                   | 25.9                    | 256.1                         | 155,000*                          |
| 190                          |                         |                               |                                   | 21.1                    | 243.9                         | 148,700*                          |
| 195                          |                         |                               |                                   | 15.0                    | 227.4                         | 142,400*                          |

180 Ft. Boom, 180 Ft. Jib

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 75                           | 74.6                    | 364.2                         | 513,900* <sup>b</sup>             |                         |                               |                                   |
| 80                           | 72.9                    | 362.7                         | 477,200* <sup>b</sup>             |                         |                               |                                   |
| 85                           | 71.2                    | 360.9                         | 444,900* <sup>b</sup>             |                         |                               |                                   |
| 90                           | 69.5                    | 359.0                         | 416,300* <sup>b</sup>             |                         |                               |                                   |
| 95                           | 67.8                    | 357.0                         | 390,700*                          |                         |                               |                                   |
| 100                          | 66.0                    | 354.7                         | 367,800*                          |                         |                               |                                   |
| 105                          | 64.3                    | 352.3                         | 347,000*                          | 69.7                    | 357.0                         | 320,100* <sup>b</sup>             |
| 110                          | 62.5                    | 349.7                         | 328,200*                          | 68.0                    | 355.0                         | 302,500*                          |
| 115                          | 60.6                    | 346.9                         | 311,000*                          | 66.3                    | 352.8                         | 286,500*                          |
| 120                          | 58.8                    | 343.8                         | 295,300*                          | 64.5                    | 350.4                         | 271,900*                          |
| 125                          | 56.9                    | 340.5                         | 280,800*                          | 62.7                    | 347.8                         | 258,400*                          |
| 130                          | 54.9                    | 337.0                         | 267,400*                          | 60.9                    | 345.0                         | 246,000*                          |
| 135                          | 52.9                    | 333.2                         | 255,000*                          | 59.0                    | 342.0                         | 234,500*                          |
| 140                          | 50.9                    | 329.2                         | 243,500*                          | 57.2                    | 338.7                         | 223,700*                          |
| 145                          | 48.8                    | 324.8                         | 232,800*                          | 55.2                    | 335.3                         | 213,800*                          |
| 150                          | 46.6                    | 320.0                         | 222,700*                          | 53.2                    | 331.5                         | 204,400*                          |
| 155                          | 44.3                    | 314.9                         | 213,300*                          | 51.2                    | 327.5                         | 195,700*                          |
| 160                          | 41.9                    | 309.4                         | 204,500*                          | 49.1                    | 323.1                         | 187,500*                          |
| 165                          | 39.4                    | 303.4                         | 196,100*                          | 46.9                    | 318.5                         | 179,800*                          |
| 170                          | 36.8                    | 296.7                         | 188,300*                          | 44.6                    | 313.4                         | 172,500*                          |
| 175                          | 34.0                    | 289.4                         | 180,800*                          | 42.3                    | 307.9                         | 165,600*                          |
| 180                          | 30.9                    | 281.2                         | 173,700*                          | 39.8                    | 302.0                         | 159,100*                          |
| 185                          | 27.5                    | 271.9                         | 166,900*                          | 37.2                    | 295.4                         | 152,800*                          |
| 190                          | 23.7                    | 260.9                         | 160,300*                          | 34.4                    | 288.2                         | 146,900*                          |
| 195                          | 19.1                    | 247.5                         | 154,000*                          | 31.4                    | 280.2                         | 141,200*                          |
| 200                          | 13.0                    | 228.8                         | 147,600*                          | 28.0                    | 271.0                         | 135,700*                          |
| 205                          |                         |                               |                                   | 24.3                    | 260.3                         | 130,500*                          |
| 210                          |                         |                               |                                   | 19.9                    | 247.3                         | 125,300*                          |
| 215                          |                         |                               |                                   | 14.0                    | 229.8                         | 120,100*                          |

Capacities indicated by (b) require  
37,000 Lb. minimum weight suspended  
beneath luffing jib point.

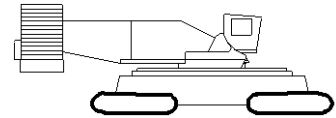
Do not luff into area indicated by (c)  
with 37,000 Lb. minimum weight  
(see CAUTION on page 1).

# Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On  
 Boom No. 80 With 140 Ft. Mast No. 81  
 494,700 Lb. Crane Counterweight  
 200,000 Lb. Carbody Counterweight  
 0 Lb. Wheeled Counterweight  
 Narrow or Wide Crawler Arrangement - 360 Degree Rating

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 MAX-ER**



**180 Ft. Boom, 200 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 80                           | 74.7                    | 383.6                         | 474,400* <sup>b</sup>             |                         |                               |                                   |
| 85                           | 73.2                    | 382.1                         | 442,200* <sup>b</sup>             |                         |                               |                                   |
| 90                           | 71.6                    | 380.4                         | 413,600* <sup>b</sup>             |                         |                               |                                   |
| 95                           | 70.1                    | 378.5                         | 388,100*                          |                         |                               |                                   |
| 100                          | 68.6                    | 376.6                         | 365,200*                          |                         |                               |                                   |
| 105                          | 67.0                    | 374.4                         | 344,500*                          |                         |                               |                                   |
| 110                          | 65.4                    | 372.1                         | 325,700*                          |                         |                               |                                   |
| 115                          | 63.8                    | 369.7                         | 308,500*                          | 68.8                    | 374.6                         | 283,500*                          |
| 120                          | 62.2                    | 367.0                         | 292,800*                          | 67.2                    | 372.5                         | 268,900*                          |
| 125                          | 60.6                    | 364.2                         | 278,400*                          | 65.7                    | 370.2                         | 255,500*                          |
| 130                          | 58.9                    | 361.1                         | 265,100*                          | 64.1                    | 367.7                         | 243,100*                          |
| 135                          | 57.2                    | 357.9                         | 252,700*                          | 62.5                    | 365.1                         | 231,600*                          |
| 140                          | 55.5                    | 354.5                         | 241,300*                          | 60.8                    | 362.3                         | 221,000*                          |
| 145                          | 53.7                    | 350.8                         | 230,600*                          | 59.1                    | 359.3                         | 211,000*                          |
| 150                          | 51.9                    | 346.8                         | 220,600*                          | 57.4                    | 356.1                         | 201,800*                          |
| 155                          | 50.0                    | 342.6                         | 211,300*                          | 55.7                    | 352.7                         | 193,100*                          |
| 160                          | 48.1                    | 338.1                         | 202,500*                          | 53.9                    | 349.0                         | 185,000*                          |
| 165                          | 46.1                    | 333.3                         | 194,300*                          | 52.1                    | 345.1                         | 177,300*                          |
| 170                          | 44.0                    | 328.2                         | 186,500*                          | 50.3                    | 341.0                         | 170,100*                          |
| 175                          | 41.9                    | 322.6                         | 179,100*                          | 48.3                    | 336.5                         | 163,300*                          |
| 180                          | 39.6                    | 316.6                         | 172,200*                          | 46.4                    | 331.8                         | 156,800*                          |
| 185                          | 37.3                    | 310.1                         | 165,600*                          | 44.3                    | 326.7                         | 150,700*                          |
| 190                          | 34.8                    | 303.0                         | 159,300*                          | 42.2                    | 321.2                         | 144,900*                          |
| 195                          | 32.1                    | 295.1                         | 153,200*                          | 40.0                    | 315.2                         | 139,400*                          |
| 200                          | 29.2                    | 286.4                         | 147,500*                          | 37.6                    | 308.8                         | 134,100*                          |
| 205                          | 26.0                    | 276.4                         | 141,900*                          | 35.2                    | 301.8                         | 129,000*                          |
| 210                          | 22.4                    | 264.8                         | 136,600*                          | 32.5                    | 294.0                         | 124,200*                          |
| 215                          | 18.1                    | 250.5                         | 131,300*                          | 29.7                    | 285.4                         | 119,500*                          |
| 220                          | 12.3                    | 230.8                         | 126,000*                          | 26.5                    | 275.7                         | 115,000*                          |
| 225                          |                         |                               |                                   | 23.0                    | 264.3                         | 110,600*                          |
| 230                          |                         |                               |                                   | 18.8                    | 250.5                         | 106,200*                          |
| 235                          |                         |                               |                                   | 13.3                    | 232.0                         | 101,900*                          |

**180 Ft. Boom, 220 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 85                           | 74.7                    | 403.0                         | 438,600* <sup>b</sup>             |                         |                               |                                   |
| 90                           | 73.4                    | 401.4                         | 410,000* <sup>b</sup>             |                         |                               |                                   |
| 95                           | 72.0                    | 399.8                         | 384,600*                          |                         |                               |                                   |
| 100                          | 70.6                    | 398.0                         | 361,700*                          |                         |                               |                                   |
| 105                          | 69.2                    | 396.1                         | 341,000*                          |                         |                               |                                   |
| 110                          | 67.8                    | 394.1                         | 322,200*                          |                         |                               |                                   |
| 115                          | 66.4                    | 391.9                         | 305,100*                          |                         |                               |                                   |
| 120                          | 65.0                    | 389.5                         | 289,400*                          | 69.4                    | 394.1                         | 264,800*                          |
| 125                          | 63.5                    | 387.0                         | 275,000*                          | 68.0                    | 392.1                         | 251,500*                          |
| 130                          | 62.0                    | 384.3                         | 261,800*                          | 66.6                    | 389.9                         | 239,100*                          |
| 135                          | 60.5                    | 381.5                         | 249,400*                          | 65.2                    | 387.6                         | 227,700*                          |
| 140                          | 59.0                    | 378.5                         | 238,000*                          | 63.7                    | 385.1                         | 217,100*                          |
| 145                          | 57.5                    | 375.3                         | 227,400*                          | 62.2                    | 382.4                         | 207,200*                          |
| 150                          | 55.9                    | 371.9                         | 217,500*                          | 60.7                    | 379.6                         | 198,000*                          |
| 155                          | 54.3                    | 368.3                         | 208,200*                          | 59.2                    | 376.6                         | 189,400*                          |
| 160                          | 52.6                    | 364.4                         | 199,500*                          | 57.7                    | 373.5                         | 181,300*                          |
| 165                          | 51.0                    | 360.4                         | 191,300*                          | 56.1                    | 370.1                         | 173,700*                          |
| 170                          | 49.2                    | 356.1                         | 183,500*                          | 54.5                    | 366.5                         | 166,600*                          |
| 175                          | 47.5                    | 351.5                         | 176,200*                          | 52.9                    | 362.7                         | 159,800*                          |
| 180                          | 45.7                    | 346.6                         | 169,400*                          | 51.2                    | 358.7                         | 153,400*                          |
| 185                          | 43.8                    | 341.4                         | 162,800*                          | 49.5                    | 354.4                         | 147,300*                          |
| 190                          | 41.8                    | 335.8                         | 156,600*                          | 47.7                    | 349.9                         | 141,600*                          |
| 195                          | 39.8                    | 329.9                         | 150,700*                          | 45.9                    | 345.1                         | 136,100*                          |
| 200                          | 37.7                    | 323.4                         | 145,000*                          | 44.1                    | 339.9                         | 130,900*                          |
| 205                          | 35.5                    | 316.5                         | 139,700*                          | 42.1                    | 334.4                         | 126,000*                          |
| 210                          | 33.1                    | 308.9                         | 134,500*                          | 40.1                    | 328.5                         | 121,200*                          |
| 215                          | 30.6                    | 300.6                         | 129,500*                          | 38.0                    | 322.1                         | 116,600*                          |
| 220                          | 27.8                    | 291.3                         | 124,800*                          | 35.8                    | 315.2                         | 112,300*                          |
| 225                          | 24.8                    | 280.8                         | 120,200*                          | 33.4                    | 307.8                         | 108,100*                          |
| 230                          | 21.3                    | 268.5                         | 115,700*                          | 30.9                    | 299.5                         | 104,000*                          |
| 235                          | 17.2                    | 253.5                         | 111,200*                          | 28.2                    | 290.4                         | 99,700*                           |
| 240                          | 11.6                    | 232.7                         | 106,700*                          | 25.2                    | 280.1                         | 95,300*                           |
| 245                          |                         |                               |                                   | 21.9                    | 268.1                         | 90,900*                           |
| 250                          |                         |                               |                                   | 17.8                    | 253.6                         | 86,600*                           |

Capacities indicated by (b) require  
 37,000 Lb. minimum weight suspended  
 beneath luffing jib point.

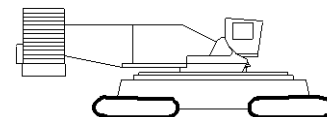
# Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On  
Boom No. 80 With 140 Ft. Mast No. 81  
494,700 Lb. Crane Counterweight  
200,000 Lb. Carbody Counterweight  
0 Lb. Wheeled Counterweight

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**21000  
MAX-ER**



**180 Ft. Boom, 240 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 90                           | 74.8                    | 422.3                         | 406,800*                          |                         |                               |                                   |
| 95                           | 73.6                    | 420.8                         | 381,300*                          |                         |                               |                                   |
| 100                          | 72.3                    | 419.2                         | 358,500*                          |                         |                               |                                   |
| 105                          | 71.0                    | 417.5                         | 337,800*                          |                         |                               |                                   |
| 110                          | 69.8                    | 415.6                         | 319,000*                          |                         |                               |                                   |
| 115                          | 68.5                    | 413.6                         | 301,900*                          |                         |                               |                                   |
| 120                          | 67.2                    | 411.5                         | 286,300*                          |                         |                               |                                   |
| 125                          | 65.9                    | 409.3                         | 271,900*                          | 69.9                    | 413.6                         | 247,900*                          |
| 130                          | 64.5                    | 406.9                         | 258,600*                          | 68.7                    | 411.7                         | 235,600*                          |
| 135                          | 63.2                    | 404.3                         | 246,300*                          | 67.4                    | 409.6                         | 224,200*                          |
| 140                          | 61.9                    | 401.7                         | 234,900*                          | 66.1                    | 407.3                         | 213,600*                          |
| 145                          | 60.5                    | 398.8                         | 224,300*                          | 64.7                    | 405.0                         | 203,800*                          |
| 150                          | 59.1                    | 395.8                         | 214,400*                          | 63.4                    | 402.4                         | 194,600*                          |
| 155                          | 57.7                    | 392.6                         | 205,100*                          | 62.1                    | 399.8                         | 186,000*                          |
| 160                          | 56.2                    | 389.3                         | 196,400*                          | 60.7                    | 396.9                         | 177,900*                          |
| 165                          | 54.8                    | 385.7                         | 188,300*                          | 59.3                    | 394.0                         | 170,400*                          |
| 170                          | 53.3                    | 382.0                         | 180,600*                          | 57.9                    | 390.8                         | 163,200*                          |
| 175                          | 51.8                    | 378.1                         | 173,300*                          | 56.4                    | 387.5                         | 156,500*                          |
| 180                          | 50.2                    | 373.9                         | 166,500*                          | 55.0                    | 384.0                         | 150,200*                          |
| 185                          | 48.6                    | 369.5                         | 160,000*                          | 53.5                    | 380.3                         | 144,100*                          |
| 190                          | 47.0                    | 364.8                         | 153,800*                          | 52.0                    | 376.4                         | 138,400*                          |
| 195                          | 45.3                    | 359.9                         | 147,900*                          | 50.4                    | 372.2                         | 133,000*                          |
| 200                          | 43.6                    | 354.6                         | 142,300*                          | 48.9                    | 367.9                         | 127,800*                          |
| 205                          | 41.8                    | 349.1                         | 137,000*                          | 47.2                    | 363.2                         | 122,900*                          |
| 210                          | 39.9                    | 343.1                         | 131,900*                          | 45.6                    | 358.3                         | 118,200*                          |
| 215                          | 38.0                    | 336.8                         | 127,100*                          | 43.8                    | 353.1                         | 113,700*                          |
| 220                          | 36.0                    | 329.9                         | 122,400*                          | 42.1                    | 347.6                         | 109,400*                          |
| 225                          | 33.9                    | 322.6                         | 117,900*                          | 40.2                    | 341.7                         | 105,300*                          |
| 230                          | 31.6                    | 314.5                         | 113,600*                          | 38.3                    | 335.4                         | 100,800*                          |
| 235                          | 29.2                    | 305.7                         | 109,500*                          | 36.3                    | 328.7                         | 96,400*                           |
| 240                          | 26.6                    | 296.0                         | 105,500*                          | 34.2                    | 321.4                         | 92,100*                           |
| 245                          | 23.7                    | 284.9                         | 101,500*                          | 31.9                    | 313.5                         | 88,000*                           |
| 250                          | 20.4                    | 272.0                         | 97,700*                           | 29.5                    | 304.8                         | 84,000*                           |
| 260                          | 11.1                    | 234.6                         | 90,000*                           | 24.1                    | 284.3                         | 76,300*                           |
| 270                          |                         |                               |                                   | 17.0                    | 256.5                         | 68,900*                           |

**180 Ft. Boom, 260 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 95                           | 74.9                    | 441.7                         | 377,800*                          |                         |                               |                                   |
| 100                          | 73.7                    | 440.2                         | 354,900*                          |                         |                               |                                   |
| 105                          | 72.6                    | 438.6                         | 334,200*                          |                         |                               |                                   |
| 110                          | 71.4                    | 436.9                         | 315,500*                          |                         |                               |                                   |
| 115                          | 70.2                    | 435.1                         | 298,400*                          |                         |                               |                                   |
| 120                          | 69.0                    | 433.2                         | 282,800*                          |                         |                               |                                   |
| 125                          | 67.8                    | 431.1                         | 268,400*                          |                         |                               |                                   |
| 130                          | 66.6                    | 429.0                         | 255,200*                          |                         |                               |                                   |
| 135                          | 65.4                    | 426.7                         | 242,900*                          | 69.2                    | 431.2                         | 220,200*                          |
| 140                          | 64.2                    | 424.2                         | 231,500*                          | 68.0                    | 429.2                         | 209,600*                          |
| 145                          | 63.0                    | 421.7                         | 220,900*                          | 66.8                    | 427.0                         | 199,800*                          |
| 150                          | 61.7                    | 419.0                         | 211,000*                          | 65.6                    | 424.7                         | 190,700*                          |
| 155                          | 60.4                    | 416.1                         | 201,800*                          | 64.4                    | 422.3                         | 182,100*                          |
| 160                          | 59.2                    | 413.1                         | 193,100*                          | 63.1                    | 419.8                         | 174,100*                          |
| 165                          | 57.9                    | 410.0                         | 185,000*                          | 61.9                    | 417.1                         | 166,600*                          |
| 170                          | 56.5                    | 406.7                         | 177,300*                          | 60.6                    | 414.3                         | 159,500*                          |
| 175                          | 55.2                    | 403.2                         | 170,100*                          | 59.3                    | 411.3                         | 152,800*                          |
| 180                          | 53.8                    | 399.5                         | 163,200*                          | 58.0                    | 408.2                         | 146,400*                          |
| 185                          | 52.4                    | 395.7                         | 156,800*                          | 56.7                    | 404.9                         | 140,500*                          |
| 190                          | 51.0                    | 391.6                         | 150,600*                          | 55.4                    | 401.4                         | 134,800*                          |
| 195                          | 49.6                    | 387.4                         | 144,800*                          | 54.0                    | 397.8                         | 129,400*                          |
| 200                          | 48.1                    | 382.9                         | 139,300*                          | 52.6                    | 394.0                         | 124,300*                          |
| 205                          | 46.6                    | 378.1                         | 134,000*                          | 51.2                    | 389.9                         | 119,400*                          |
| 210                          | 45.0                    | 373.2                         | 128,900*                          | 49.8                    | 385.7                         | 114,700*                          |
| 215                          | 43.4                    | 367.9                         | 124,100*                          | 48.3                    | 381.2                         | 110,300*                          |
| 220                          | 41.8                    | 362.3                         | 119,500*                          | 46.8                    | 376.6                         | 105,700*                          |
| 225                          | 40.1                    | 356.4                         | 115,100*                          | 45.2                    | 371.6                         | 101,000*                          |
| 230                          | 38.3                    | 350.1                         | 110,900*                          | 43.6                    | 366.4                         | 96,500*                           |
| 235                          | 36.4                    | 343.4                         | 106,800*                          | 42.0                    | 360.8                         | 92,100*                           |
| 240                          | 34.5                    | 336.1                         | 102,900*                          | 40.3                    | 355.0                         | 88,000*                           |
| 245                          | 32.5                    | 328.4                         | 99,100*                           | 38.5                    | 348.7                         | 84,000*                           |
| 250                          | 30.3                    | 319.9                         | 95,400*                           | 36.7                    | 342.1                         | 80,100*                           |
| 260                          | 25.5                    | 300.4                         | 88,000*                           | 32.8                    | 327.2                         | 72,700*                           |
| 270                          | 19.5                    | 275.4                         | 80,100*                           | 28.3                    | 309.8                         | 65,800*                           |
| 280                          | 10.6                    | 236.3                         | 72,200*                           | 23.1                    | 288.3                         | 59,100*                           |
| 290                          |                         |                               |                                   | 16.3                    | 259.3                         | 52,600*                           |

# Liftcrane Luffing Jib Capacities

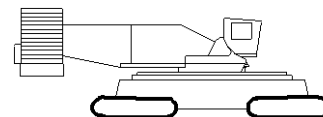
**21000**

**MAX-ER**

Luffing Jib No. 81 On  
Boom No. 80 With 140 Ft. Mast No. 81  
494,700 Lb. Crane Counterweight  
200,000 Lb. Carbody Counterweight  
0 Lb. Wheeled Counterweight

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

Narrow or Wide Crawler Arrangement - 360 Degree Rating



**180 Ft. Boom, 280 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 100                          | 74.9                    | 461.1                         | 351,800*                          |
| 105                          | 73.8                    | 459.6                         | 331,200*                          |
| 110                          | 72.8                    | 458.0                         | 312,500*                          |
| 115                          | 71.7                    | 456.4                         | 295,400*                          |
| 120                          | 70.6                    | 454.6                         | 279,800*                          |
| 125                          | 69.5                    | 452.7                         | 265,400*                          |
| 130                          | 68.4                    | 450.7                         | 252,200*                          |
| 135                          | 67.3                    | 448.6                         | 239,900*                          |
| 140                          | 66.2                    | 446.4                         | 228,600*                          |
| 145                          | 65.0                    | 444.1                         | 218,000*                          |
| 150                          | 63.9                    | 441.6                         | 208,100*                          |
| 155                          | 62.8                    | 439.0                         | 198,900*                          |
| 160                          | 61.6                    | 436.3                         | 190,200*                          |
| 165                          | 60.4                    | 433.4                         | 182,100*                          |
| 170                          | 59.2                    | 430.5                         | 174,500*                          |
| 175                          | 58.0                    | 427.3                         | 167,300*                          |
| 180                          | 56.8                    | 424.0                         | 160,400*                          |
| 185                          | 55.5                    | 420.6                         | 154,000*                          |
| 190                          | 54.3                    | 417.0                         | 147,900*                          |
| 195                          | 53.0                    | 413.2                         | 142,100*                          |
| 200                          | 51.7                    | 409.3                         | 136,600*                          |
| 205                          | 50.4                    | 405.1                         | 131,300*                          |
| 210                          | 49.0                    | 400.8                         | 126,300*                          |
| 215                          | 47.6                    | 396.2                         | 121,500*                          |
| 220                          | 46.2                    | 391.4                         | 116,900*                          |
| 225                          | 44.8                    | 386.4                         | 112,600*                          |
| 230                          | 43.3                    | 381.1                         | 108,400*                          |
| 235                          | 41.7                    | 375.5                         | 104,300*                          |
| 240                          | 40.2                    | 369.6                         | 100,500*                          |
| 245                          | 38.5                    | 363.4                         | 96,700*                           |
| 250                          | 36.8                    | 356.7                         | 93,100*                           |
| 260                          | 33.2                    | 342.1                         | 85,200*                           |
| 270                          | 29.2                    | 325.1                         | 77,700*                           |
| 280                          | 24.5                    | 304.7                         | 70,600*                           |
| 290                          | 18.8                    | 278.6                         | 63,800*                           |
| 300                          | 10.2                    | 238.0                         | 56,800*                           |

**180 Ft. Boom, 300 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 105                          | 74.9                    | 480.4                         | 327,600*                          |
| 110                          | 73.9                    | 479.0                         | 308,900*                          |
| 115                          | 73.0                    | 477.4                         | 291,800*                          |
| 120                          | 71.9                    | 475.8                         | 276,200*                          |
| 125                          | 70.9                    | 474.1                         | 261,900*                          |
| 130                          | 69.9                    | 472.2                         | 248,600*                          |
| 135                          | 68.9                    | 470.3                         | 236,400*                          |
| 140                          | 67.9                    | 468.2                         | 225,000*                          |
| 145                          | 66.8                    | 466.1                         | 214,500*                          |
| 150                          | 65.8                    | 463.8                         | 204,600*                          |
| 155                          | 64.7                    | 461.4                         | 195,400*                          |
| 160                          | 63.6                    | 458.9                         | 186,800*                          |
| 165                          | 62.6                    | 456.3                         | 178,700*                          |
| 170                          | 61.5                    | 453.6                         | 171,000*                          |
| 175                          | 60.4                    | 450.8                         | 163,800*                          |
| 180                          | 59.3                    | 447.8                         | 157,000*                          |
| 185                          | 58.1                    | 444.7                         | 150,600*                          |
| 190                          | 57.0                    | 441.4                         | 144,500*                          |
| 195                          | 55.9                    | 438.0                         | 138,700*                          |
| 200                          | 54.7                    | 434.5                         | 133,200*                          |
| 205                          | 53.5                    | 430.8                         | 128,000*                          |
| 210                          | 52.3                    | 426.9                         | 123,000*                          |
| 215                          | 51.1                    | 422.8                         | 118,200*                          |
| 220                          | 49.8                    | 418.6                         | 113,700*                          |
| 225                          | 48.5                    | 414.2                         | 109,300*                          |
| 230                          | 47.2                    | 409.6                         | 105,100*                          |
| 235                          | 45.9                    | 404.7                         | 101,100*                          |
| 240                          | 44.5                    | 399.7                         | 97,300*                           |
| 245                          | 43.2                    | 394.3                         | 93,400*                           |
| 250                          | 41.7                    | 388.8                         | 89,200*                           |
| 260                          | 38.7                    | 376.7                         | 81,300*                           |
| 270                          | 35.5                    | 363.1                         | 74,000*                           |
| 280                          | 32.0                    | 347.8                         | 67,100*                           |
| 290                          | 28.1                    | 330.1                         | 60,600*                           |
| 300                          | 23.6                    | 308.9                         | 54,400*                           |



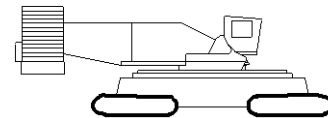
# Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On  
Boom No. 80 With 140 Ft. Mast No. 81  
494,700 Lb. Crane Counterweight  
200,000 Lb. Carbody Counterweight  
0 Lb. Wheeled Counterweight

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**21000  
MAX-ER**



**200 Ft. Boom, 120 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 60                           |                         |                               | c                                 |                         |                               |                                   |
| 65                           |                         |                               | c                                 |                         |                               |                                   |
| 70                           |                         |                               | c                                 |                         |                               |                                   |
| 75                           | 67.3                    | 320.9                         | 518,400*b                         |                         |                               |                                   |
| 80                           | 64.6                    | 318.5                         | 481,800*b                         |                         |                               |                                   |
| 85                           | 61.9                    | 315.8                         | 449,500*b                         |                         |                               |                                   |
| 90                           | 59.1                    | 312.8                         | 420,800*b                         |                         |                               |                                   |
| 95                           | 56.3                    | 309.5                         | 395,200*b                         | 65.9                    | 317.2                         | 364,000*b                         |
| 100                          | 53.3                    | 305.7                         | 372,100*b                         | 63.3                    | 314.7                         | 342,700*b                         |
| 105                          | 50.2                    | 301.6                         | 351,200*                          | 60.5                    | 311.8                         | 323,400*b                         |
| 110                          | 46.9                    | 296.9                         | 332,200*                          | 57.7                    | 308.7                         | 305,900*b                         |
| 115                          | 43.5                    | 291.6                         | 314,800*                          | 54.8                    | 305.1                         | 289,900*b                         |
| 120                          | 39.7                    | 285.7                         | 298,700*                          | 51.7                    | 301.2                         | 275,200*                          |
| 125                          | 35.7                    | 278.8                         | 283,900*                          | 48.5                    | 296.7                         | 261,600*                          |
| 130                          | 31.2                    | 270.8                         | 270,100*                          | 45.2                    | 291.8                         | 249,000*                          |
| 135                          | 25.9                    | 260.9                         | 257,100*                          | 41.6                    | 286.2                         | 237,300*                          |
| 140                          | 19.2                    | 247.9                         | 244,600*                          | 37.7                    | 279.8                         | 226,300*                          |
| 145                          | 7.5                     | 223.9                         | 231,800*                          | 33.5                    | 272.4                         | 216,000*                          |
| 150                          |                         |                               |                                   | 28.6                    | 263.5                         | 206,200*                          |
| 155                          |                         |                               |                                   | 22.7                    | 252.3                         | 196,800*                          |
| 160                          |                         |                               |                                   | 14.6                    | 236.1                         | 187,500*                          |

**200 Ft. Boom, 140 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 65                           |                         |                               | c                                 |                         |                               |                                   |
| 70                           |                         |                               | c                                 |                         |                               |                                   |
| 75                           | 70.7                    | 342.6                         | 515,500*b                         |                         |                               |                                   |
| 80                           | 68.5                    | 340.6                         | 478,900*b                         |                         |                               |                                   |
| 85                           | 66.3                    | 338.3                         | 446,800*b                         |                         |                               |                                   |
| 90                           | 64.0                    | 335.9                         | 418,200*b                         |                         |                               |                                   |
| 95                           | 61.7                    | 333.2                         | 392,700*b                         | 69.6                    | 339.1                         | 360,200*b                         |
| 100                          | 59.3                    | 330.2                         | 369,800*b                         | 67.4                    | 337.0                         | 339,100*b                         |
| 105                          | 56.8                    | 326.9                         | 349,100*                          | 65.1                    | 334.6                         | 319,900*b                         |
| 110                          | 54.3                    | 323.3                         | 330,200*                          | 62.8                    | 332.0                         | 302,600*b                         |
| 115                          | 51.7                    | 319.3                         | 313,000*                          | 60.4                    | 329.2                         | 286,700*b                         |
| 120                          | 49.0                    | 315.0                         | 297,200*                          | 58.0                    | 326.0                         | 272,100*                          |
| 125                          | 46.1                    | 310.2                         | 282,600*                          | 55.5                    | 322.6                         | 258,700*                          |
| 130                          | 43.2                    | 304.9                         | 269,100*                          | 53.0                    | 318.8                         | 246,300*                          |
| 135                          | 40.0                    | 298.9                         | 256,600*                          | 50.3                    | 314.6                         | 234,800*                          |
| 140                          | 36.6                    | 292.3                         | 244,900*                          | 47.5                    | 310.1                         | 224,100*                          |
| 145                          | 32.9                    | 284.7                         | 233,900*                          | 44.6                    | 305.0                         | 214,100*                          |
| 150                          | 28.7                    | 275.8                         | 223,600*                          | 41.6                    | 299.4                         | 204,700*                          |
| 155                          | 23.8                    | 265.1                         | 213,700*                          | 38.3                    | 293.1                         | 195,900*                          |
| 160                          | 17.7                    | 250.9                         | 204,200*                          | 34.7                    | 286.0                         | 187,600*                          |
| 165                          | 6.8                     | 224.9                         | 194,200*                          | 30.8                    | 277.8                         | 179,600*                          |
| 170                          |                         |                               |                                   | 26.3                    | 268.1                         | 172,000*                          |
| 175                          |                         |                               |                                   | 20.9                    | 255.9                         | 164,600*                          |
| 180                          |                         |                               |                                   | 13.4                    | 238.2                         | 157,200*                          |

Capacities indicated by **(b)** require  
37,000 Lb. minimum weight suspended  
beneath luffing jib point.

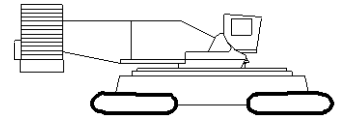
**Do not luff into area indicated by (c)  
with 37,000 Lb. minimum weight  
(see CAUTION on page 1).**

# Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On  
 Boom No. 80 With 140 Ft. Mast No. 81  
 494,700 Lb. Crane Counterweight  
 200,000 Lb. Carbody Counterweight  
 0 Lb. Wheeled Counterweight  
 Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested  
 With The Intent To Be In  
 The Scope of ANSI B30.5

21000  
 MAX-ER



200 Ft. Boom, 160 Ft. Jib

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 75                           | 73.2                    | 363.7                         | 512,900*b                         |                         |                               |                                   |
| 80                           | 71.3                    | 362.0                         | 476,600*b                         |                         |                               |                                   |
| 85                           | 69.4                    | 360.1                         | 444,500*b                         |                         |                               |                                   |
| 90                           | 67.5                    | 358.0                         | 416,100*b                         |                         |                               |                                   |
| 95                           | 65.5                    | 355.7                         | 390,700*b                         |                         |                               |                                   |
| 100                          | 63.5                    | 353.2                         | 367,800*                          |                         |                               |                                   |
| 105                          | 61.4                    | 350.5                         | 347,200*                          | 68.4                    | 356.6                         | 317,200*b                         |
| 110                          | 59.4                    | 347.5                         | 328,400*                          | 66.5                    | 354.4                         | 299,900*b                         |
| 115                          | 57.2                    | 344.3                         | 311,300*                          | 64.5                    | 352.0                         | 284,100*b                         |
| 120                          | 55.0                    | 340.7                         | 295,600*                          | 62.5                    | 349.3                         | 269,700*                          |
| 125                          | 52.8                    | 336.9                         | 281,200*                          | 60.4                    | 346.5                         | 256,400*                          |
| 130                          | 50.5                    | 332.8                         | 267,800*                          | 58.3                    | 343.4                         | 244,100*                          |
| 135                          | 48.1                    | 328.3                         | 255,500*                          | 56.1                    | 340.0                         | 232,700*                          |
| 140                          | 45.6                    | 323.4                         | 244,000*                          | 53.9                    | 336.3                         | 222,100*                          |
| 145                          | 42.9                    | 318.1                         | 233,200*                          | 51.6                    | 332.4                         | 212,200*                          |
| 150                          | 40.2                    | 312.2                         | 223,100*                          | 49.3                    | 328.1                         | 203,000*                          |
| 155                          | 37.2                    | 305.7                         | 213,700*                          | 46.8                    | 323.4                         | 194,400*                          |
| 160                          | 34.1                    | 298.4                         | 204,700*                          | 44.2                    | 318.3                         | 186,200*                          |
| 165                          | 30.6                    | 290.1                         | 196,300*                          | 41.5                    | 312.6                         | 178,500*                          |
| 170                          | 26.7                    | 280.5                         | 188,200*                          | 38.7                    | 306.5                         | 171,200*                          |
| 175                          | 22.2                    | 268.9                         | 180,500*                          | 35.6                    | 299.6                         | 164,300*                          |
| 180                          | 16.4                    | 253.6                         | 172,900*                          | 32.3                    | 291.8                         | 157,800*                          |
| 185                          | 6.3                     | 225.7                         | 164,900*                          | 28.7                    | 282.9                         | 151,400*                          |
| 190                          |                         |                               |                                   | 24.5                    | 272.4                         | 145,400*                          |
| 195                          |                         |                               |                                   | 19.5                    | 259.2                         | 139,400*                          |
| 200                          |                         |                               |                                   | 12.4                    | 240.2                         | 133,400*                          |

200 Ft. Boom, 180 Ft. Jib

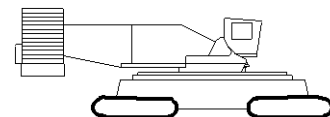
| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 80                           | 73.5                    | 383.1                         | 473,100*b                         |                         |                               |                                   |
| 85                           | 71.8                    | 381.5                         | 441,100*b                         |                         |                               |                                   |
| 90                           | 70.1                    | 379.6                         | 412,700*b                         |                         |                               |                                   |
| 95                           | 68.4                    | 377.6                         | 387,300*b                         |                         |                               |                                   |
| 100                          | 66.6                    | 375.5                         | 364,500*                          |                         |                               |                                   |
| 105                          | 64.9                    | 373.1                         | 344,000*                          |                         |                               |                                   |
| 110                          | 63.1                    | 370.5                         | 325,300*                          | 69.2                    | 376.1                         | 295,800*b                         |
| 115                          | 61.3                    | 367.8                         | 308,200*                          | 67.5                    | 374.0                         | 280,100*                          |
| 120                          | 59.4                    | 364.8                         | 292,600*                          | 65.8                    | 371.8                         | 265,700*                          |
| 125                          | 57.5                    | 361.6                         | 278,200*                          | 64.0                    | 369.3                         | 252,500*                          |
| 130                          | 55.6                    | 358.2                         | 265,000*                          | 62.2                    | 366.7                         | 240,300*                          |
| 135                          | 53.6                    | 354.5                         | 252,700*                          | 60.3                    | 363.8                         | 229,000*                          |
| 140                          | 51.6                    | 350.5                         | 241,300*                          | 58.5                    | 360.7                         | 218,500*                          |
| 145                          | 49.5                    | 346.3                         | 230,600*                          | 56.6                    | 357.4                         | 208,700*                          |
| 150                          | 47.4                    | 341.7                         | 220,700*                          | 54.6                    | 353.8                         | 199,600*                          |
| 155                          | 45.1                    | 336.7                         | 211,300*                          | 52.6                    | 350.0                         | 191,000*                          |
| 160                          | 42.8                    | 331.3                         | 202,600*                          | 50.5                    | 345.9                         | 183,000*                          |
| 165                          | 40.3                    | 325.4                         | 194,300*                          | 48.4                    | 341.5                         | 175,400*                          |
| 170                          | 37.7                    | 319.0                         | 186,500*                          | 46.2                    | 336.7                         | 168,300*                          |
| 175                          | 35.0                    | 312.0                         | 179,100*                          | 43.9                    | 331.5                         | 161,500*                          |
| 180                          | 32.0                    | 304.1                         | 172,000*                          | 41.5                    | 325.9                         | 155,100*                          |
| 185                          | 28.8                    | 295.2                         | 165,300*                          | 39.0                    | 319.7                         | 149,000*                          |
| 190                          | 25.1                    | 284.9                         | 158,800*                          | 36.3                    | 313.0                         | 143,200*                          |
| 195                          | 20.8                    | 272.5                         | 152,600*                          | 33.5                    | 305.6                         | 137,700*                          |
| 200                          | 15.4                    | 256.2                         | 146,400*                          | 30.4                    | 297.2                         | 132,300*                          |
| 205                          | 5.8                     | 226.5                         | 139,700*                          | 27.0                    | 287.6                         | 127,200*                          |
| 210                          |                         |                               |                                   | 23.0                    | 276.4                         | 122,200*                          |
| 215                          |                         |                               |                                   | 18.3                    | 262.3                         | 117,300*                          |
| 220                          |                         |                               |                                   | 11.7                    | 242.1                         | 112,300*                          |

Capacities indicated by (b) require  
 37,000 Lb. minimum weight suspended  
 beneath luffing jib point.

# Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On  
Boom No. 80 With 140 Ft. Mast No. 81  
494,700 Lb. Crane Counterweight  
200,000 Lb. Carbody Counterweight  
0 Lb. Wheeled Counterweight  
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5



**21000**

**MAX-ER**

**200 Ft. Boom, 200 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 85                           | 73.7                    | 402.5                         | 438,300*b                         |                         |                               |                                   |
| 90                           | 72.2                    | 400.9                         | 409,900*b                         |                         |                               |                                   |
| 95                           | 70.7                    | 399.1                         | 384,600*b                         |                         |                               |                                   |
| 100                          | 69.1                    | 397.2                         | 361,900*                          |                         |                               |                                   |
| 105                          | 67.6                    | 395.1                         | 341,300*                          |                         |                               |                                   |
| 110                          | 66.0                    | 392.9                         | 322,700*                          |                         |                               |                                   |
| 115                          | 64.4                    | 390.5                         | 305,700*                          | 69.9                    | 395.7                         | 276,900*                          |
| 120                          | 62.8                    | 387.9                         | 290,100*                          | 68.3                    | 393.7                         | 262,600*                          |
| 125                          | 61.2                    | 385.1                         | 275,800*                          | 66.8                    | 391.5                         | 249,500*                          |
| 130                          | 59.5                    | 382.1                         | 262,500*                          | 65.2                    | 389.2                         | 237,300*                          |
| 135                          | 57.8                    | 379.0                         | 250,300*                          | 63.6                    | 386.7                         | 226,100*                          |
| 140                          | 56.1                    | 375.6                         | 238,900*                          | 62.0                    | 384.0                         | 215,600*                          |
| 145                          | 54.3                    | 372.0                         | 228,400*                          | 60.3                    | 381.1                         | 205,900*                          |
| 150                          | 52.5                    | 368.2                         | 218,500*                          | 58.6                    | 378.1                         | 196,800*                          |
| 155                          | 50.6                    | 364.1                         | 209,200*                          | 56.9                    | 374.8                         | 188,300*                          |
| 160                          | 48.7                    | 359.7                         | 200,500*                          | 55.2                    | 371.3                         | 180,400*                          |
| 165                          | 46.8                    | 355.0                         | 192,300*                          | 53.4                    | 367.6                         | 172,900*                          |
| 170                          | 44.7                    | 349.9                         | 184,600*                          | 51.6                    | 363.6                         | 165,800*                          |
| 175                          | 42.6                    | 344.5                         | 177,300*                          | 49.7                    | 359.3                         | 159,100*                          |
| 180                          | 40.4                    | 338.7                         | 170,400*                          | 47.7                    | 354.8                         | 152,800*                          |
| 185                          | 38.1                    | 332.4                         | 163,900*                          | 45.7                    | 349.9                         | 146,800*                          |
| 190                          | 35.7                    | 325.5                         | 157,600*                          | 43.7                    | 344.7                         | 141,100*                          |
| 195                          | 33.1                    | 317.9                         | 151,700*                          | 41.5                    | 339.1                         | 135,700*                          |
| 200                          | 30.3                    | 309.5                         | 146,000*                          | 39.3                    | 333.0                         | 130,500*                          |
| 205                          | 27.2                    | 300.0                         | 140,500*                          | 36.9                    | 326.4                         | 125,500*                          |
| 210                          | 23.8                    | 289.0                         | 135,200*                          | 34.4                    | 319.2                         | 120,800*                          |
| 215                          | 19.7                    | 275.8                         | 130,000*                          | 31.7                    | 311.2                         | 116,200*                          |
| 220                          | 14.6                    | 258.6                         | 124,900*                          | 28.7                    | 302.3                         | 111,800*                          |
| 225                          | 5.5                     | 227.3                         | 119,300*                          | 25.5                    | 292.1                         | 107,500*                          |
| 230                          |                         |                               |                                   | 21.8                    | 280.1                         | 103,400*                          |
| 235                          |                         |                               |                                   | 17.3                    | 265.3                         | 98,900*                           |
| 240                          |                         |                               |                                   | 11.0                    | 243.9                         | 93,900*                           |

**200 Ft. Boom, 220 Ft. Jib**

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 90                           | 73.8                    | 421.9                         | 406,200*b                         |                         |                               |                                   |
| 95                           | 72.5                    | 420.3                         | 381,000*                          |                         |                               |                                   |
| 100                          | 71.1                    | 418.6                         | 358,300*                          |                         |                               |                                   |
| 105                          | 69.7                    | 416.7                         | 337,800*                          |                         |                               |                                   |
| 110                          | 68.3                    | 414.7                         | 319,100*                          |                         |                               |                                   |
| 115                          | 66.9                    | 412.6                         | 302,200*                          |                         |                               |                                   |
| 120                          | 65.5                    | 410.3                         | 286,600*                          |                         |                               |                                   |
| 125                          | 64.0                    | 407.8                         | 272,300*                          | 69.0                    | 413.2                         | 245,300*                          |
| 130                          | 62.5                    | 405.2                         | 259,200*                          | 67.6                    | 411.1                         | 233,200*                          |
| 135                          | 61.1                    | 402.4                         | 247,000*                          | 66.2                    | 408.9                         | 222,000*                          |
| 140                          | 59.5                    | 399.5                         | 235,600*                          | 64.7                    | 406.5                         | 211,600*                          |
| 145                          | 58.0                    | 396.3                         | 225,100*                          | 63.3                    | 404.0                         | 202,000*                          |
| 150                          | 56.4                    | 393.0                         | 215,300*                          | 61.8                    | 401.3                         | 192,900*                          |
| 155                          | 54.8                    | 389.5                         | 206,000*                          | 60.3                    | 398.4                         | 184,500*                          |
| 160                          | 53.2                    | 385.7                         | 197,400*                          | 58.8                    | 395.4                         | 176,600*                          |
| 165                          | 51.6                    | 381.8                         | 189,300*                          | 57.2                    | 392.2                         | 169,100*                          |
| 170                          | 49.8                    | 377.5                         | 181,600*                          | 55.6                    | 388.7                         | 162,100*                          |
| 175                          | 48.1                    | 373.0                         | 174,400*                          | 54.0                    | 385.1                         | 155,500*                          |
| 180                          | 46.3                    | 368.3                         | 167,500*                          | 52.4                    | 381.2                         | 149,200*                          |
| 185                          | 44.4                    | 363.2                         | 161,000*                          | 50.7                    | 377.1                         | 143,300*                          |
| 190                          | 42.5                    | 357.8                         | 154,900*                          | 49.0                    | 372.8                         | 137,700*                          |
| 195                          | 40.5                    | 351.9                         | 149,000*                          | 47.2                    | 368.1                         | 132,300*                          |
| 200                          | 38.4                    | 345.7                         | 143,400*                          | 45.4                    | 363.2                         | 127,200*                          |
| 205                          | 36.2                    | 338.9                         | 138,100*                          | 43.5                    | 358.0                         | 122,300*                          |
| 210                          | 33.9                    | 331.6                         | 133,000*                          | 41.5                    | 352.3                         | 117,700*                          |
| 215                          | 31.5                    | 323.5                         | 128,100*                          | 39.5                    | 346.3                         | 113,200*                          |
| 220                          | 28.8                    | 314.6                         | 123,400*                          | 37.3                    | 339.8                         | 109,000*                          |
| 225                          | 25.9                    | 304.5                         | 118,800*                          | 35.1                    | 332.7                         | 104,800*                          |
| 230                          | 22.6                    | 293.0                         | 114,400*                          | 32.7                    | 325.0                         | 100,600*                          |
| 235                          | 18.7                    | 279.1                         | 110,000*                          | 30.1                    | 316.6                         | 96,200*                           |
| 240                          | 13.8                    | 260.9                         | 105,700*                          | 27.3                    | 307.1                         | 91,900*                           |
| 245                          | 5.2                     | 228.1                         | 100,900*                          | 24.2                    | 296.3                         | 87,700*                           |
| 250                          |                         |                               |                                   | 20.7                    | 283.7                         | 83,500*                           |
| 260                          |                         |                               |                                   | 10.4                    | 245.6                         | 75,000*                           |

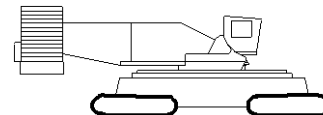
Capacities indicated by **(b)** require  
37,000 Lb. minimum weight suspended  
beneath luffing jib point.

# Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On  
Boom No. 80 With 140 Ft. Mast No. 81  
494,700 Lb. Crane Counterweight  
200,000 Lb. Carbody Counterweight  
0 Lb. Wheeled Counterweight  
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**21000  
MAX-ER**



## 200 Ft. Boom, 240 Ft. Jib

| Jib<br>Oper.<br>Rad.<br>Feet | 85 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |
| 95                           | 74.0                    | 441.3                         | 377,700*                          |                         |                               |                                   |
| 100                          | 72.7                    | 439.7                         | 355,000*                          |                         |                               |                                   |
| 105                          | 71.5                    | 438.0                         | 334,500*                          |                         |                               |                                   |
| 110                          | 70.2                    | 436.2                         | 315,900*                          |                         |                               |                                   |
| 115                          | 68.9                    | 434.3                         | 298,900*                          |                         |                               |                                   |
| 120                          | 67.6                    | 432.2                         | 283,400*                          |                         |                               |                                   |
| 125                          | 66.3                    | 430.0                         | 269,100*                          |                         |                               |                                   |
| 130                          | 65.0                    | 427.7                         | 256,000*                          | 69.6                    | 432.7                         | 229,600*                          |
| 135                          | 63.7                    | 425.2                         | 243,800*                          | 68.3                    | 430.7                         | 218,400*                          |
| 140                          | 62.3                    | 422.5                         | 232,500*                          | 67.0                    | 428.6                         | 208,100*                          |
| 145                          | 61.0                    | 419.7                         | 222,000*                          | 65.7                    | 426.3                         | 198,400*                          |
| 150                          | 59.6                    | 416.8                         | 212,100*                          | 64.3                    | 423.9                         | 189,400*                          |
| 155                          | 58.2                    | 413.7                         | 203,000*                          | 63.0                    | 421.3                         | 181,000*                          |
| 160                          | 56.7                    | 410.4                         | 194,300*                          | 61.6                    | 418.6                         | 173,100*                          |
| 165                          | 55.3                    | 406.9                         | 186,200*                          | 60.3                    | 415.8                         | 165,700*                          |
| 170                          | 53.8                    | 403.2                         | 178,600*                          | 58.9                    | 412.7                         | 158,700*                          |
| 175                          | 52.3                    | 399.4                         | 171,400*                          | 57.4                    | 409.5                         | 152,100*                          |
| 180                          | 50.8                    | 395.3                         | 164,600*                          | 56.0                    | 406.1                         | 145,900*                          |
| 185                          | 49.2                    | 391.0                         | 158,200*                          | 54.5                    | 402.6                         | 140,000*                          |
| 190                          | 47.6                    | 386.4                         | 152,000*                          | 53.0                    | 398.8                         | 134,400*                          |
| 195                          | 45.9                    | 381.6                         | 146,200*                          | 51.5                    | 394.8                         | 129,100*                          |
| 200                          | 44.2                    | 376.4                         | 140,700*                          | 50.0                    | 390.6                         | 124,000*                          |
| 205                          | 42.4                    | 371.0                         | 135,400*                          | 48.4                    | 386.2                         | 119,200*                          |
| 210                          | 40.6                    | 365.2                         | 130,400*                          | 46.7                    | 381.5                         | 114,600*                          |
| 215                          | 38.7                    | 359.0                         | 125,600*                          | 45.0                    | 376.5                         | 110,200*                          |
| 220                          | 36.7                    | 352.3                         | 120,900*                          | 43.3                    | 371.2                         | 106,000*                          |
| 225                          | 34.6                    | 345.1                         | 116,500*                          | 41.5                    | 365.6                         | 101,400*                          |
| 230                          | 32.4                    | 337.3                         | 112,200*                          | 39.6                    | 359.5                         | 97,000*                           |
| 235                          | 30.1                    | 328.8                         | 108,100*                          | 37.7                    | 353.1                         | 92,600*                           |
| 240                          | 27.5                    | 319.4                         | 104,100*                          | 35.7                    | 346.2                         | 88,500*                           |
| 245                          | 24.7                    | 308.9                         | 100,300*                          | 33.5                    | 338.7                         | 84,500*                           |
| 250                          | 21.6                    | 296.7                         | 96,500*                           | 31.2                    | 330.6                         | 80,600*                           |
| 260                          | 13.2                    | 263.2                         | 89,100*                           | 26.1                    | 311.7                         | 73,100*                           |
| 270                          |                         |                               |                                   | 19.8                    | 287.1                         | 65,900*                           |
| 280                          |                         |                               |                                   | 10.0                    | 247.3                         | 58,500*                           |