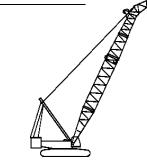
# Liftcrane Boom Extended Upper Point Capacities

Boom No. 58WA with 24.9 ft Extended Upper Boom Point 368,000 lb Crane Counterweight 41,300 lb Auxiliary Counterweight 120,000 lb Carbody Counterweight 360 Degree Rating





16000 SERIES 5



**LIFTING CAPACITIES:** Lifting capacities for various boom lengths and 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 (\*).

Upper boom point (upper sheave) capacity for liftcrane service with single part whip line is 30,000 lb or 60,000 lb with two part line. In all cases, upper boom point capacities cannot exceed those listed for extended upper boom point (lower sheave) capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath upper boom point sheaves, is considered part of extended upper boom point load. Boom is 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:** Machine to operate in a level position on a firm uniformly supporting surface. Refer to boom rigging **No. 81018003**, Wire Rope Specification chart **No. 8889-A**, Counterweight Arrangement chart **No. 8682-A** and Wind Conditions chart **No. 8688-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 Operator's Manual for operating guidelines.

#### MACHINE TRAVEL WITH LOAD:

- A. Machine can swing and travel with 360 degree rating.
- B. Grade in any direction must not exceed 1 percent (0.5 degrees).
- C. Travel surface must be firm, level and uniformly supporting. Capacity charts are based on static conditions; therefore judgment must be used to allow for dynamic effects of traveling with load. Carry load as close to ground as possible. Stabilize load with taglines. Travel slowly and smoothly to avoid shock loading boom and rigging.

#### MACHINE TRAVEL WITHOUT LOAD:

A. Load blocks and/or hook and weight balls may be suspended beneath upper boom points or tied off to machine. Total combined suspended weight beneath upper boom points must not exceed 14,500 lb.

- B. Machine to travel on a firm and uniformly supporting surface. Travel allowed with 360 degree swing up to 1 percent (0.5 degrees) grade; crane upperworks must be inline with crawlers and grade when grade exceeds 1 percent. Grade in direction of travel should not exceed 10 percent (5.7 degrees); side-to-side grade must not exceed 2 percent (1.1 degrees) measured at boom hinge pins.
- C. Refer to table 1 for boom angle, boom length and direction for various grades. Adjust boom within boom angle range shown in table with machine in a level position before traveling onto grade. Do not change boom angle after crane has been traveled onto grade. Boom angle is angle between horizontal and centerline of boom butt and inserts. Refer to table below for grade vs. angle when traveling.
- D. Do not exceed 2 percent (1.1 degrees) side-to-side grade at boom hinge pins when cutting (turning on grade).
- E. *Warning:* Travel prohibited for boom angle range not shown in table 1. *Crane could tip.*

Percent Grade Vs. Angle In Degrees					
Percent Grade	Angle				
1	0.5				
5	2.8				
10	5.7				

Table 1

MACHINE TRAVEL WITHOUT LOAD							
Boom	Boom Angle Range in Degrees  Percent Grade						
Length							
Feet	0 - 1%	2 - 5%	6 - 10%				
BOOM FACING UPHILL OR DOWNHILL							
311.7	55 - 72	60 - 66	60 - 63				





**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block.



**BOOM ANGLE:** Boom angle in degrees (°) is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.



#### **EXTENDED UPPER BOOM POINT ELEVATION:**

Extended upper boom point elevation is vertical distance from ground level to centerline of extended upper boom point (lower sheave) shaft.

**MACHINE EQUIPMENT:** Machine equipped with 34 ft crawlers, 60 in. treads, 32 ft live mast, 26 part boom hoist reeving, boom support straps, 368,000 lb crane counterweight, auxiliary counterweight tray and two 17, 500 lb counterweights, two 30,000 lb and four 15,000 lb carbody counterweights.

## WITH OR WITHOUT BOOM CATWALKS

## **Maximum Boom Length Lifted Unassisted**

Over End of Blocked Crawlers

Boom Length

311.7 ft (a)

Load block, hook and weight ball on ground at start.

(a) When equipped with boom catwalks, boom must be rigged with one load hoist lead line and luffing jib hoist drum must be removed from boom butt.

### **Optional Block Reeving**

When block is reeved with optional 6 or 8 part reeving with wire rope dead end on upper boom point (upper sheave), deduct 3,500 lb from capacities. Refer to reeving diagram **No. 81022461** for optional reeving.

# **Explanation of Symbols**



Boom No. 58WA with 24.9 ft Extended Upper Boom Point



Crane Counterweight

Auxiliary Counterweight

Carbody Counterweight



360 Degree Rating



Operating Radius (see page 2)



Boom Angle (see page 2)



Extended Upper Boom Point Elevation (see page 2)



Lifting Capacities (see page 1)

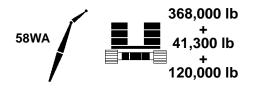


Boom Length



Extended Upper Boom Point Offset Angle









ft         lb         ft         lb         ft           60         82.6         339.7         222.300 *         82.4         337.8         204.800 *         65           70         80.9         337.9         215.600 *         81.3         336.9         201.500 *         70           75         80.0         336.9         196.900 *         80.4         335.8         198,300 *         75           80         79.1         335.8         180.200         79.5         334.7         181.800         80           85         78.2         334.6         164.400         78.6         333.5         165.900         85           90         77.4         333.3         150.600         77.8         332.3         152.000         90           95         76.5         330.5         127.800         76.9         330.9         199.800         95           100         75.6         330.5         127.800         76.0         329.5         129.000         100           156         74.7         329.0         118.200         75.1         327.9         119.300         105           110         73.8         327.4         109.600         72.4 </th <th><u>'</u></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	<u>'</u>							
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145       67.4       313.6       66,800 *       67.7       312.5       67,700 *       145         150       66.4       311.3       62,200 *       66.8       310.2       63,100 *       150         155       65.5       308.8       58,000 *       65.8       307.7       58,800 *       155         160       64.5       306.3       54,000 *       64.9       305.2       54,800 *       160         165       63.6       303.6       50,300 *       63.9       302.5       51,000 *       165         170       62.6       300.9       46,700 *       62.9       299.7       47,400 *       170         175       61.6       298.0       43,400 *       61.9       296.8       44,100 *       175         180       60.6       295.0       40,300 *       60.9       293.8       40,900 *       180         185       59.6       291.9       37,300 *       59.9       290.7       37,900 *       185         190       58.6       288.6       34,500 *       58.9       287.4       35,100 *       195         200       56.5       281.7       29,300 *       56.8       280.5       29,800 *								
150       66.4       311.3       62,200 *       66.8       310.2       63,100 *       150         155       65.5       308.8       58,000 *       65.8       307.7       58,800 *       155         160       64.5       306.3       54,000 *       64.9       305.2       54,800 *       160         165       63.6       303.6       50,300 *       63.9       302.5       51,000 *       165         170       62.6       300.9       46,700 *       62.9       299.7       47,400 *       170         175       61.6       298.0       43,400 *       61.9       296.8       44,100 *       175         180       60.6       295.0       40,300 *       60.9       293.8       40,900 *       180         185       59.6       291.9       37,300 *       59.9       290.7       37,900 *       185         190       58.6       288.6       34,500 *       58.9       287.4       35,100 *       190         195       57.5       285.3       31,800 *       57.9       284.0       32,400 *       195         200       56.5       281.7       29,300 *       56.8       280.5       29,800 *								
155         65.5         308.8         58,000 *         65.8         307.7         58,800 *         155           160         64.5         306.3         54,000 *         64.9         305.2         54,800 *         160           165         63.6         303.6         50,300 *         63.9         302.5         51,000 *         165           170         62.6         300.9         46,700 *         62.9         299.7         47,400 *         170           175         61.6         298.0         43,400 *         61.9         296.8         44,100 *         175           180         60.6         295.0         40,300 *         60.9         293.8         40,900 *         180           185         59.6         291.9         37,300 *         59.9         290.7         37,900 *         185           190         58.6         288.6         34,500 *         58.9         287.4         35,100 *         190           195         57.5         285.3         31,800 *         57.9         284.0         32,400 *         195           200         56.5         281.7         29,300 *         56.8         280.5         29,800 *         200								
160         64.5         306.3         54,000 *         64.9         305.2         54,800 *         160           165         63.6         303.6         50,300 *         63.9         302.5         51,000 *         165           170         62.6         300.9         46,700 *         62.9         299.7         47,400 *         170           175         61.6         298.0         43,400 *         61.9         296.8         44,100 *         175           180         60.6         295.0         40,300 *         60.9         293.8         40,900 *         180           185         59.6         291.9         37,300 *         59.9         290.7         37,900 *         185           190         58.6         288.6         34,500 *         58.9         287.4         35,100 *         190           195         57.5         285.3         31,800 *         57.9         284.0         32,400 *         195           200         56.5         281.7         29,300 *         56.8         280.5         29,800 *         200           205         55.4         278.1         26,900 *         55.8         276.9         27,400 *         205								
165       63.6       303.6       50,300 *       63.9       302.5       51,000 *       165         170       62.6       300.9       46,700 *       62.9       299.7       47,400 *       170         175       61.6       298.0       43,400 *       61.9       296.8       44,100 *       175         180       60.6       295.0       40,300 *       60.9       293.8       40,900 *       180         185       59.6       291.9       37,300 *       59.9       290.7       37,900 *       185         190       58.6       288.6       34,500 *       58.9       287.4       35,100 *       190         195       57.5       285.3       31,800 *       57.9       284.0       32,400 *       195         200       56.5       281.7       29,300 *       56.8       280.5       29,800 *       200         205       55.4       278.1       26,900 *       55.8       276.9       27,400 *       205         210       54.4       274.3       24,600 *       54.7       273.1       25,100 *       210         215       53.3       270.4       22,400 *       53.6       269.1       22,800 *								
170       62.6       300.9       46,700 *       62.9       299.7       47,400 *       170         175       61.6       298.0       43,400 *       61.9       296.8       44,100 *       175         180       60.6       295.0       40,300 *       60.9       293.8       40,900 *       180         185       59.6       291.9       37,300 *       59.9       290.7       37,900 *       185         190       58.6       288.6       34,500 *       58.9       287.4       35,100 *       190         195       57.5       285.3       31,800 *       57.9       284.0       32,400 *       195         200       56.5       281.7       29,300 *       56.8       280.5       29,800 *       200         205       55.4       278.1       26,900 *       55.8       276.9       27,400 *       205         210       54.4       274.3       24,600 *       54.7       273.1       25,100 *       210         215       53.3       270.4       22,400 *       53.6       269.1       22,800 *       215         220       52.2       266.3       20,300 *       52.5       265.0       20,700 *								
175       61.6       298.0       43,400 *       61.9       296.8       44,100 *       175         180       60.6       295.0       40,300 *       60.9       293.8       40,900 *       180         185       59.6       291.9       37,300 *       59.9       290.7       37,900 *       185         190       58.6       288.6       34,500 *       58.9       287.4       35,100 *       190         195       57.5       285.3       31,800 *       57.9       284.0       32,400 *       195         200       56.5       281.7       29,300 *       56.8       280.5       29,800 *       200         205       55.4       278.1       26,900 *       55.8       276.9       27,400 *       205         210       54.4       274.3       24,600 *       54.7       273.1       25,100 *       210         215       53.3       270.4       22,400 *       53.6       269.1       22,800 *       215         220       52.2       266.3       20,300 *       52.5       265.0       20,700 *       220         225       51.1       262.0       18,300 *       51.3       260.7       18,700 *								
180         60.6         295.0         40,300 *         60.9         293.8         40,900 *         180           185         59.6         291.9         37,300 *         59.9         290.7         37,900 *         185           190         58.6         288.6         34,500 *         58.9         287.4         35,100 *         190           195         57.5         285.3         31,800 *         57.9         284.0         32,400 *         195           200         56.5         281.7         29,300 *         56.8         280.5         29,800 *         200           205         55.4         278.1         26,900 *         55.8         276.9         27,400 *         205           210         54.4         274.3         24,600 *         54.7         273.1         25,100 *         210           215         53.3         270.4         22,400 *         53.6         269.1         22,800 *         215           220         52.2         266.3         20,300 *         52.5         265.0         20,700 *         220           225         51.1         262.0         18,300 *         51.3         260.7         18,700 *         225								
185         59.6         291.9         37,300 *         59.9         290.7         37,900 *         185           190         58.6         288.6         34,500 *         58.9         287.4         35,100 *         190           195         57.5         285.3         31,800 *         57.9         284.0         32,400 *         195           200         56.5         281.7         29,300 *         56.8         280.5         29,800 *         200           205         55.4         278.1         26,900 *         55.8         276.9         27,400 *         205           210         54.4         274.3         24,600 *         54.7         273.1         25,100 *         210           215         53.3         270.4         22,400 *         53.6         269.1         22,800 *         215           220         52.2         266.3         20,300 *         52.5         265.0         20,700 *         220           225         51.1         262.0         18,300 *         51.3         260.7         18,700 *         225           230         49.9         257.6         16,400 *         50.2         256.2         16,700 *         230				,			,	
190       58.6       288.6       34,500 *       58.9       287.4       35,100 *       190         195       57.5       285.3       31,800 *       57.9       284.0       32,400 *       195         200       56.5       281.7       29,300 *       56.8       280.5       29,800 *       200         205       55.4       278.1       26,900 *       55.8       276.9       27,400 *       205         210       54.4       274.3       24,600 *       54.7       273.1       25,100 *       210         215       53.3       270.4       22,400 *       53.6       269.1       22,800 *       215         220       52.2       266.3       20,300 *       52.5       265.0       20,700 *       220         225       51.1       262.0       18,300 *       51.3       260.7       18,700 *       225         230       49.9       257.6       16,400 *       50.2       256.2       16,700 *       230         235       48.8       253.0       14,500 *       49.0       251.6       14,900 *       235         240       47.6       248.2       12,700 *       47.8       246.8       13,100 *								
195       57.5       285.3       31,800 *       57.9       284.0       32,400 *       195         200       56.5       281.7       29,300 *       56.8       280.5       29,800 *       200         205       55.4       278.1       26,900 *       55.8       276.9       27,400 *       205         210       54.4       274.3       24,600 *       54.7       273.1       25,100 *       210         215       53.3       270.4       22,400 *       53.6       269.1       22,800 *       215         220       52.2       266.3       20,300 *       52.5       265.0       20,700 *       220         225       51.1       262.0       18,300 *       51.3       260.7       18,700 *       225         230       49.9       257.6       16,400 *       50.2       256.2       16,700 *       230         235       48.8       253.0       14,500 *       49.0       251.6       14,900 *       235         240       47.6       248.2       12,700 *       47.8       246.8       13,100 *       240								
200       56.5       281.7       29,300 *       56.8       280.5       29,800 *       200         205       55.4       278.1       26,900 *       55.8       276.9       27,400 *       205         210       54.4       274.3       24,600 *       54.7       273.1       25,100 *       210         215       53.3       270.4       22,400 *       53.6       269.1       22,800 *       215         220       52.2       266.3       20,300 *       52.5       265.0       20,700 *       220         225       51.1       262.0       18,300 *       51.3       260.7       18,700 *       225         230       49.9       257.6       16,400 *       50.2       256.2       16,700 *       230         235       48.8       253.0       14,500 *       49.0       251.6       14,900 *       235         240       47.6       248.2       12,700 *       47.8       246.8       13,100 *       240				'				
205         55.4         278.1         26,900 *         55.8         276.9         27,400 *         205           210         54.4         274.3         24,600 *         54.7         273.1         25,100 *         210           215         53.3         270.4         22,400 *         53.6         269.1         22,800 *         215           220         52.2         266.3         20,300 *         52.5         265.0         20,700 *         220           225         51.1         262.0         18,300 *         51.3         260.7         18,700 *         225           230         49.9         257.6         16,400 *         50.2         256.2         16,700 *         230           235         48.8         253.0         14,500 *         49.0         251.6         14,900 *         235           240         47.6         248.2         12,700 *         47.8         246.8         13,100 *         240								
210       54.4       274.3       24,600 *       54.7       273.1       25,100 *       210         215       53.3       270.4       22,400 *       53.6       269.1       22,800 *       215         220       52.2       266.3       20,300 *       52.5       265.0       20,700 *       220         225       51.1       262.0       18,300 *       51.3       260.7       18,700 *       225         230       49.9       257.6       16,400 *       50.2       256.2       16,700 *       230         235       48.8       253.0       14,500 *       49.0       251.6       14,900 *       235         240       47.6       248.2       12,700 *       47.8       246.8       13,100 *       240			-					
220     52.2     266.3     20,300 *     52.5     265.0     20,700 *     220       225     51.1     262.0     18,300 *     51.3     260.7     18,700 *     225       230     49.9     257.6     16,400 *     50.2     256.2     16,700 *     230       235     48.8     253.0     14,500 *     49.0     251.6     14,900 *     235       240     47.6     248.2     12,700 *     47.8     246.8     13,100 *     240	210		274.3					
220     52.2     266.3     20,300 *     52.5     265.0     20,700 *     220       225     51.1     262.0     18,300 *     51.3     260.7     18,700 *     225       230     49.9     257.6     16,400 *     50.2     256.2     16,700 *     230       235     48.8     253.0     14,500 *     49.0     251.6     14,900 *     235       240     47.6     248.2     12,700 *     47.8     246.8     13,100 *     240	215	53.3	270.4	22,400 *	53.6	269.1		215
225     51.1     262.0     18,300 *     51.3     260.7     18,700 *     225       230     49.9     257.6     16,400 *     50.2     256.2     16,700 *     230       235     48.8     253.0     14,500 *     49.0     251.6     14,900 *     235       240     47.6     248.2     12,700 *     47.8     246.8     13,100 *     240	220	52.2			52.5	265.0	20,700 *	220
235	225	51.1	262.0	18,300 *	51.3	260.7	18,700 *	225
240 47.6 248.2 12,700 * 47.8 246.8 13,100 * 240								
245   46.4   243.2   11,000 *   46.6   241.7   11,300 *   245	240							240
	245	46.4	243.2	11,000 *	46.6	241.7	11,300 *	245