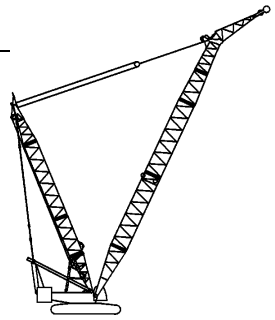
Liftcrane Boom
Extended Upper Point Capacities



Boom No. 58 HL with 30,0 m Mast No. 59A and 7,0 m Extended Upper Boom Point
150 590 kg Crane Counterweight
54 430 kg Carbody Counterweight
360 Degree Rating

16000 SERIES 3

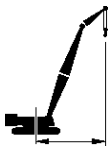
LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point (upper sheave) capacity for liftcrane service with single part whip line is 13 610 kg. 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.

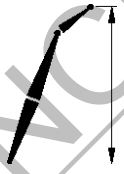
OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with mast up. Refer to boom rigging **No. A14546**, Wire Rope Specification chart **No. 8674-C**, Counterweight Arrangement chart **No. 8682-A** and Wind Conditions chart **No. 8688-A**. Crane operator 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: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8683-D**.



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 10 363 mm crawlers, 1 524 mm treads, 9 754 mm live mast, 30,0 m mast, 12 part boom hoist reeving, boom support straps, 150 590 kg crane counterweight, two 13 610 kg and four 6 800 kg carbody counterweights.

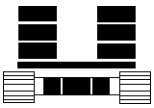
Maximum Boom Length Lifted Unassisted Over End of Blocked Crawlers
Boom Length
96,0 m
Load block, hook and weight ball on ground at start.

Boom Catwalks Deduct
Deduct 300 kg from capacities when boom catwalks are attached.

Lower boom point must be removed when extended upper boom point is attached.

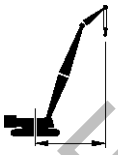
Explanation of Symbols

Boom No. 58 Heavy Lift Top with 7,0 m Extended Upper Boom Point



Crane Counterweight
+
Carbody Counterweight

360 Degree Rating



Operating Radius
(see page 1)

Boom Angle
(see page 1)

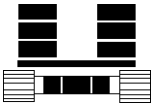
Extended Upper
Boom Point Elevation
(see page 1)

Lifting Capacities
(see page 1)

Boom Length

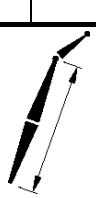
Manitowoc Cranes, Inc.
Manitowoc, Wisconsin 54220 U.S.A.

58 HL



150 590 kg
+
54 430 kg

360°

m	°	m	kg
	96,0 m		
18,3	83,0	104,1	81 500 *
20,0	82,0	103,8	81 500 *
22,0	80,9	103,4	81 500 *
24,0	79,7	102,9	78 400
26,0	78,6	102,5	70 200
28,0	77,4	102,0	62 700
30,0	76,3	101,4	56 300
32,0	75,1	100,8	50 900
34,0	73,9	100,2	46 100
36,0	72,8	99,5	41 900
38,0	71,6	98,7	38 300
40,0	70,4	98,0	35 000
42,0	69,2	97,1	32 000
44,0	67,9	96,2	29 400
46,0	66,7	95,3	27 000
48,0	65,5	94,3	24 800
50,0	64,2	93,3	22 800
52,0	62,9	92,2	21 000
54,0	61,7	91,0	19 300
56,0	60,3	89,8	17 700
58,0	59,0	88,5	16 300
60,0	57,7	87,2	14 900
62,0	56,3	85,8	13 600
64,0	54,9	84,3	12 500
66,0	53,5	82,7	11 400
68,0	52,1	81,0	10 300
70,0	50,6	79,3	9 300
72,0	49,1	77,5	8 400
74,0	47,5	75,5	7 500
76,0	45,9	73,5	6 500 *
78,0	44,3	71,3	5 600 *
80,0	42,6	69,0	4 600 *
82,0	40,8	66,6	3 800 *