

Liftcrane Boom Extended Upper Point Capacities

Boom No. 58BRS with 7,6 m Extended

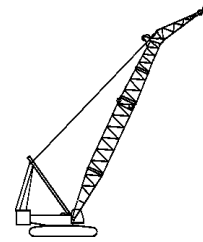
Upper Boom Point

166 920 kg Crane Counterweight

18 730 kg Auxiliary Crane Counterweight

54 430 kg 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 are calculated to comply with EN 13000, ISO 4305 and include factors based on a 4,0 degree tipping angle. Capacities based on structural competence are denoted by and asterisk (*).

Upper boom point (upper sheave) capacity for liftcrane service with single part whip line is 13 610 kg or 27 220 kg 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. 81016771**, Boom Raising Procedure **No. 8971-A**, Wire Rope Specification chart **No. 8965-A**, Counterweight Arrangement chart **No. 8682-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.



WIND CONDITIONS: Machine may operate with full working load in wind speeds up to the maximum wind speed value provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. Wind speed to be measured at boom point elevation. Refer to Wind Conditions Chart **No. 8688-A** for effect of wind on lifted load, additional maximum wind speeds when lifting percentage of full working load, and instructions for parking when wind speed exceeds maximum operating wind speed.

MACHINE TRAVEL: Machine to travel on a firm, level [up to 1 percent (0,5 degrees) grade], and uniformly supporting surface. *Travel with 100 percent of rated load prohibited.* Travel restricted to 90 percent of rated capacity with speed not to exceed 0,4 m/s. Boom must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8968-A**.

MAX PERMISSIBLE SLEWING SPEED: Slewing operation with working load shall not exceed 0,4 m/s as measured at the operating radius. The amount of time to brake or start slewing a working load shall not be less than 2,5 seconds.



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.



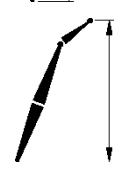
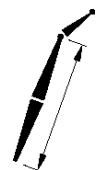
EXTENDED UPPER BOOM POINT ELEVATION: Extended upper boom point elevation is vertical distance from ground level to centerline of extended upper boom point (lower sheave) shaft.

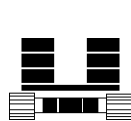
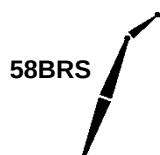
MACHINE EQUIPMENT: Machine equipped with 10 363 mm crawlers, 1 524 mm treads, 9 754 mm live mast, 26 part boom hoist reeving, boom support straps, 166 920 kg crane counterweight, auxiliary counterweight tray and two 7 940 kg counterweights, two 13 610 kg and four 6 800 kg carbody counterweights.

With or Without Boom Catwalks
Boom Lengths Lifted Using Boom Raising System
Over End of Blocked Crawlers
Boom Length
89,0 - 107,0 m (a)
Load block, hook and weight ball on ground until combined weights are within rated capacity of chart. (a) 107,0 m boom requires machine to be equipped with upperworks jacking cylinders and boom must be rigged with one load hoist lead line.

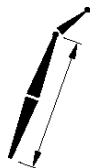
Optional Block Reeving
When block is reeved with optional 6 or 8 part reeving with wire rope dead end on upper boom point (upper sheave), deduct 1 600 kg from capacities. Refer to rigging drawing 81016771 for optional reeving.

Explanation of Symbols

58BRS 	Boom No. 58 BRS with 7,6 m Extended Upper Boom Point
	Crane Counterweight +
	Auxiliary Crane Counterweight +
	Carbody Counterweight
	360 Degree Rating
	Maximum Wind Speed (see page 1)
	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
	Extended Upper Boom Point Offset Angle



166 920 kg
+
18 730 kg
+
54 430 kg

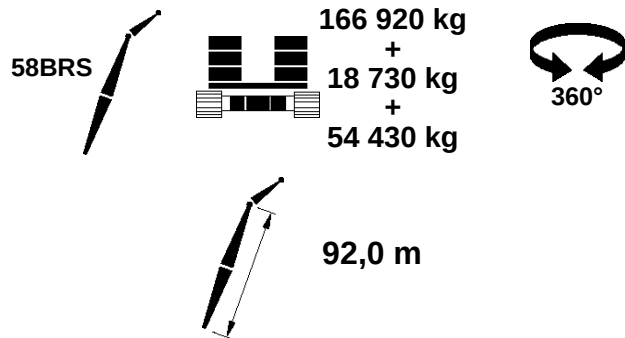


89,0 m

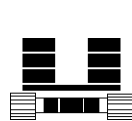
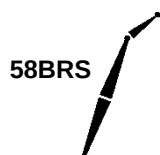


9 m/s

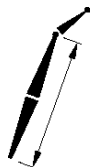
	28°			35°			
m	m	m	kg	m	kg	m	m
18,3	82,1	97,5	103 100	82,6	97,1	104 100	18,3
20,0	81,1	97,1	93 400	81,5	96,8	94 300	20,0
22,0	79,9	96,7	83 800	80,3	96,4	84 700	22,0
24,0	78,7	96,3	75 600	79,1	96,0	76 400	24,0
26,0	77,4	95,8	68 500	77,9	95,4	69 300	26,0
28,0	76,2	95,2	62 400	76,6	94,9	63 000	28,0
30,0	75,0	94,6	57 000	75,4	94,3	57 600	30,0
32,0	73,7	94,0	52 200	74,1	93,7	52 700	32,0
34,0	72,4	93,3	47 900	72,8	93,0	48 400	34,0
36,0	71,2	92,5	44 000	71,6	92,2	44 500	36,0
38,0	69,9	91,7	40 200	70,3	91,4	40 700	38,0
40,0	68,6	90,9	36 600 *	69,0	90,6	37 100 *	40,0
42,0	67,3	90,0	33 300 *	67,7	89,7	33 800 *	42,0
44,0	66,0	89,0	30 400 *	66,4	88,7	30 800 *	44,0
46,0	64,6	88,0	27 700 *	65,0	87,7	28 100 *	46,0
48,0	63,3	87,0	25 200 *	63,7	86,6	25 600 *	48,0
50,0	61,9	85,8	23 000 *	62,3	85,5	23 300 *	50,0
52,0	60,5	84,6	20 900 *	60,9	84,3	21 200 *	52,0
54,0	59,1	83,4	18 900 *	59,5	83,0	19 200 *	54,0
56,0	57,7	82,0	17 100 *	58,0	81,7	17 400 *	56,0
58,0	56,2	80,6	15 400 *	56,6	80,2	15 700 *	58,0
60,0	54,8	79,1	13 900 *	55,1	78,7	14 100 *	60,0
62,0	53,2	77,6	12 400 *	53,6	77,2	12 600 *	62,0
64,0	51,7	75,9	11 000 *	52,0	75,5	11 200 *	64,0
66,0	50,1	74,1	9 700 *	50,4	73,7	9 900 *	66,0
68,0	48,5	72,3	8 500 *	48,8	71,9	8 700 *	68,0
70,0	46,8	70,3	7 400 *	47,1	69,9	7 500 *	70,0



	28°			35°			
m	m	m	kg	m	kg	m	m
18,3	82,4	100,5	101 300	82,8	100,2	102 400	18,3
20,0	81,4	100,2	91 900	81,8	99,9	92 800	20,0
22,0	80,2	99,8	82 400	80,6	99,5	83 300	22,0
24,0	79,0	99,3	74 300	79,4	99,0	75 100	24,0
26,0	77,8	98,9	67 400	78,2	98,5	68 100	26,0
28,0	76,6	98,3	61 200	77,0	98,0	61 900	28,0
30,0	75,4	97,8	55 900	75,8	97,4	56 500	30,0
32,0	74,2	97,1	51 200	74,6	96,8	51 700	32,0
34,0	73,0	96,5	46 900	73,4	96,1	47 400	34,0
36,0	71,8	95,7	43 100	72,2	95,4	43 600	36,0
38,0	70,5	95,0	39 500	70,9	94,7	40 000	38,0
40,0	69,3	94,2	35 900 *	69,7	93,8	36 300 *	40,0
42,0	68,0	93,3	32 600 *	68,4	93,0	33 000 *	42,0
44,0	66,8	92,4	29 700 *	67,1	92,0	30 100 *	44,0
46,0	65,5	91,4	26 900 *	65,8	91,1	27 300 *	46,0
48,0	64,2	90,4	24 500 *	64,5	90,0	24 800 *	48,0
50,0	62,9	89,3	22 200 *	63,2	88,9	22 500 *	50,0
52,0	61,5	88,1	20 100 *	61,9	87,8	20 400 *	52,0
54,0	60,2	86,9	18 200 *	60,5	86,6	18 500 *	54,0
56,0	58,8	85,6	16 400 *	59,1	85,3	16 700 *	56,0
58,0	57,4	84,3	14 700 *	57,7	83,9	15 000 *	58,0
60,0	56,0	82,9	13 200 *	56,3	82,5	13 400 *	60,0
62,0	54,6	81,4	11 700 *	54,9	81,0	11 900 *	62,0
64,0	53,1	79,8	10 300 *	53,4	79,4	10 500 *	64,0
66,0	51,6	78,1	9 000 *	51,9	77,7	9 200 *	66,0
68,0	50,1	76,4	7 800 *	50,3	76,0	8 000 *	68,0
70,0	48,5	74,5	6 600 *	48,8	74,1	6 800 *	70,0
72,0	46,9	72,6	5 600 *	47,1	72,1	5 700 *	72,0



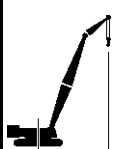
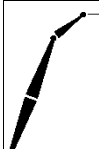
166 920 kg
+
18 730 kg
+
54 430 kg

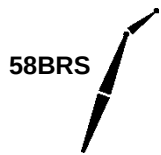


95,0 m



9 m/s

	28°			35°			
 m	 °	 m	 kg	 °	 m	 kg	 m
18,3	82,6	103,5	99 700	83,0	103,2	100 700	18,3
20,0	81,6	103,2	90 400	82,0	102,9	91 300	20,0
22,0	80,5	102,9	81 100	80,9	102,5	81 900	22,0
24,0	79,3	102,4	73 100	79,7	102,1	73 900	24,0
26,0	78,2	102,0	66 200	78,6	101,6	67 000	26,0
28,0	77,0	101,4	60 200	77,4	101,1	60 900	28,0
30,0	75,9	100,9	54 900	76,3	100,6	55 500	30,0
32,0	74,7	100,3	50 200	75,1	100,0	50 800	32,0
34,0	73,5	99,6	46 000	73,9	99,3	46 500	34,0
36,0	72,3	98,9	42 200	72,7	98,6	42 700	36,0
38,0	71,1	98,2	38 800	71,5	97,9	39 300	38,0
40,0	69,9	97,4	35 200 *	70,3	97,1	35 700 *	40,0
42,0	68,7	96,6	32 000 *	69,1	96,2	32 400 *	42,0
44,0	67,5	95,7	29 000 *	67,9	95,3	29 400 *	44,0
46,0	66,3	94,7	26 300 *	66,6	94,4	26 800 *	46,0
48,0	65,0	93,8	23 900 *	65,4	93,4	24 300 *	48,0
50,0	63,7	92,7	21 600 *	64,1	92,4	22 000 *	50,0
52,0	62,5	91,6	19 500 *	62,8	91,2	19 900 *	52,0
54,0	61,2	90,4	17 600 *	61,5	90,1	17 900 *	54,0
56,0	59,8	89,2	15 800 *	60,2	88,8	16 100 *	56,0
58,0	58,5	87,9	14 100 *	58,8	87,5	14 400 *	58,0
60,0	57,2	86,6	12 600 *	57,5	86,2	12 800 *	60,0
62,0	55,8	85,1	11 100 *	56,1	84,7	11 400 *	62,0
64,0	54,4	83,6	9 800 *	54,7	83,2	10 000 *	64,0
66,0	52,9	82,0	8 500 *	53,2	81,6	8 600 *	66,0
68,0	51,5	80,4	7 200 *	51,8	80,0	7 400 *	68,0
70,0	50,0	78,6	6 100 *	50,3	78,2	6 300 *	70,0
72,0				48,7	76,3	5 100 *	72,0



166 920 kg
+
18 730 kg
+
54 430 kg

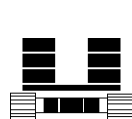
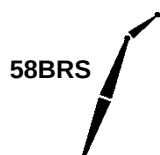


98,0 m

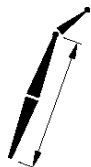


7 m/s

	28°			35°			
m	m	m	kg	m	kg	m	m
18,3	82,8	106,6	98 000	82,3	106,0	89 900	18,3
20,0	81,9	106,3	88 900	81,2	105,6	80 500	20,0
22,0	80,8	105,9	79 700	80,0	105,2	72 600	22,0
24,0	79,6	105,5	71 800	78,9	104,7	65 800	24,0
26,0	78,5	105,0	65 000				26,0
28,0	77,4	104,5	59 100	77,8	104,2	59 800	28,0
30,0	76,3	104,0	53 800	76,7	103,7	54 500	30,0
32,0	75,1	103,4	49 200	75,5	103,1	49 800	32,0
34,0	74,0	102,8	45 000	74,4	102,5	45 500	34,0
36,0	72,9	102,1	41 300	73,2	101,8	41 800	36,0
38,0	71,7	101,4	37 900	72,1	101,1	38 400	38,0
40,0	70,5	100,6	34 500 *	70,9	100,3	35 000 *	40,0
42,0	69,4	99,8	31 200 *	69,7	99,5	31 700 *	42,0
44,0	68,2	99,0	28 300 *	68,5	98,6	28 700 *	44,0
46,0	67,0	98,1	25 600 *	67,3	97,7	26 000 *	46,0
48,0	65,8	97,1	23 100 *	66,1	96,8	23 500 *	48,0
50,0	64,6	96,1	20 900 *	64,9	95,7	21 200 *	50,0
52,0	63,3	95,0	18 800 *	63,7	94,7	19 100 *	52,0
54,0	62,1	93,9	16 900 *	62,4	93,6	17 200 *	54,0
56,0	60,8	92,7	15 100 *	61,1	92,4	15 400 *	56,0
58,0	59,5	91,5	13 400 *	59,8	91,1	13 700 *	58,0
60,0	58,2	90,2	11 900 *	58,5	89,8	12 100 *	60,0
62,0	56,9	88,8	10 400 *	57,2	88,4	10 600 *	62,0
64,0	55,6	87,4	9 000 *	55,9	87,0	9 300 *	64,0
66,0	54,2	85,9	7 700 *	54,5	85,5	8 000 *	66,0
68,0	52,8	84,3	6 500 *	53,1	83,9	6 700 *	68,0
70,0	51,4	82,6	5 400 *	51,7	82,2	5 500 *	70,0



166 920 kg
+
18 730 kg
+
54 430 kg

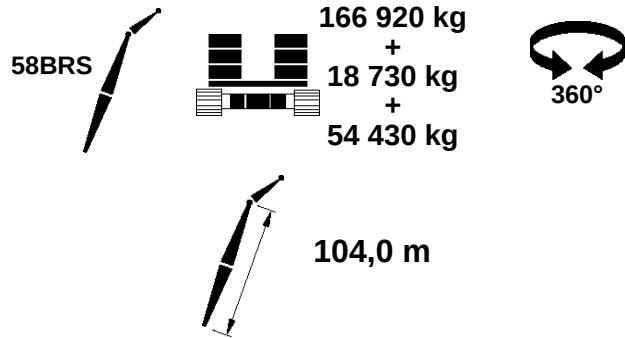


101,0 m

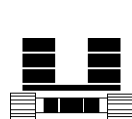
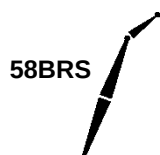


7 m/s

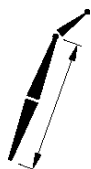
	28°			35°			
	m	m	kg	m	kg	kg	m
19,8	82,2	109,4	88 900	82,6	109,1	89 900	19,8
20,0	82,1	109,3	88 000	82,5	109,0	89 000	20,0
22,0	81,0	109,0	78 900	81,4	108,7	79 800	22,0
24,0	79,9	108,6	71 200	80,3	108,2	72 000	24,0
26,0	78,9	108,1	64 500	79,2	107,8	65 200	26,0
28,0	77,8	107,6	58 700	78,1	107,3	59 400	28,0
30,0	76,7	107,1	53 500	77,0	106,8	54 100	30,0
32,0	75,6	106,5	48 900	75,9	106,2	49 500	32,0
34,0	74,5	105,9	44 800	74,8	105,6	45 300	34,0
36,0	73,4	105,3	41 100	73,7	105,0	41 600	36,0
38,0	72,2	104,6	37 800	72,6	104,3	38 200	38,0
40,0	71,1	103,9	34 700	71,5	103,5	35 100	40,0
42,0	70,0	103,1	31 800	70,3	102,7	32 300	42,0
44,0	68,8	102,2	28 900 *	69,2	101,9	29 400 *	44,0
46,0	67,7	101,4	26 200 *	68,0	101,0	26 600 *	46,0
48,0	66,5	100,4	23 700 *	66,8	100,1	24 100 *	48,0
50,0	65,3	99,5	21 500 *	65,7	99,1	21 800 *	50,0
52,0	64,1	98,4	19 400 *	64,5	98,1	19 700 *	52,0
54,0	62,9	97,3	17 400 *	63,2	97,0	17 800 *	54,0
56,0	61,7	96,2	15 700 *	62,0	95,9	15 900 *	56,0
58,0	60,5	95,0	14 000 *	60,8	94,7	14 300 *	58,0
60,0	59,2	93,8	12 400 *	59,5	93,4	12 700 *	60,0
62,0	58,0	92,4	11 000 *	58,3	92,1	11 200 *	62,0
64,0	56,7	91,1	9 600 *	57,0	90,7	9 800 *	64,0
66,0	55,4	89,6	8 300 *	55,7	89,2	8 500 *	66,0
68,0	54,0	88,1	7 000 *	54,3	87,7	7 300 *	68,0
70,0	52,7	86,5	5 900 *	53,0	86,1	6 100 *	70,0



	28°			35°			
m	m	m	kg	m	kg	m	m
19,8	82,4	112,4	87 900	82,8	112,1	86 000 *	19,8
20,0	82,3	112,4	87 000	82,7	112,1	85 500	20,0
22,0	81,3	112,0	78 100	81,6	111,7	79 300	22,0
24,0	80,2	111,6	70 500	80,6	111,3	71 300	24,0
26,0	79,2	111,2	63 800	79,5	110,9	64 600	26,0
28,0	78,1	110,7	58 100	78,5	110,4	58 700	28,0
30,0	77,0	110,2	53 000	77,4	109,9	53 600	30,0
32,0	76,0	109,7	48 400	76,3	109,3	49 000	32,0
34,0	74,9	109,1	44 300	75,3	108,8	44 900	34,0
36,0	73,8	108,4	40 700	74,2	108,1	41 200	36,0
38,0	72,7	107,8	37 400	73,1	107,4	37 800	38,0
40,0	71,6	107,1	34 300	72,0	106,7	34 800	40,0
42,0	70,5	106,3	31 600	70,9	106,0	32 000	42,0
44,0	69,4	105,5	28 800 *	69,8	105,2	29 200	44,0
46,0	68,3	104,6	26 100 *	68,6	104,3	26 500 *	46,0
48,0	67,2	103,7	23 600 *	67,5	103,4	24 000 *	48,0
50,0	66,0	102,8	21 400 *	66,4	102,5	21 700 *	50,0
52,0	64,9	101,8	19 300 *	65,2	101,5	19 600 *	52,0
54,0	63,7	100,8	17 300 *	64,0	100,4	17 600 *	54,0
56,0	62,6	99,7	15 500 *	62,9	99,3	15 900 *	56,0
58,0	61,4	98,5	13 900 *	61,7	98,2	14 200 *	58,0
60,0	60,2	97,3	12 300 *	60,5	96,9	12 600 *	60,0
62,0	58,9	96,0	10 900 *	59,2	95,7	11 100 *	62,0
64,0	57,7	94,7	9 500 *	58,0	94,3	9 700 *	64,0
66,0	56,5	93,3	8 200 *	56,7	93,0	8 400 *	66,0
68,0	55,2	91,9	7 000 *	55,5	91,5	7 200 *	68,0
70,0	53,9	90,3	5 800 *	54,2	90,0	6 000 *	70,0



166 920 kg
+
18 730 kg
+
54 430 kg



107,0 m



7 m/s

	28°			35°			
m	°	m	kg	°	m	kg	m
19,8	82,6	115,4	86 400				19,8
20,0	82,5	115,4	85 600				20,0
22,0	81,5	115,1	76 700	81,9	114,8	77 700	22,0
24,0	80,5	114,7	69 300	80,8	114,4	70 100	24,0
26,0	79,5	114,3	62 800	79,8	113,9	63 500	26,0
28,0	78,4	113,8	57 000	78,8	113,5	57 700	28,0
30,0	77,4	113,3	52 000	77,7	113,0	52 600	30,0
32,0	76,4	112,8	47 500	76,7	112,5	48 100	32,0
34,0	75,3	112,2	43 400	75,7	111,9	44 000	34,0
36,0	74,3	111,6	39 800	74,6	111,3	40 400	36,0
38,0	73,2	110,9	36 500	73,5	110,6	37 000	38,0
40,0	72,1	110,2	33 500	72,5	109,9	34 000	40,0
42,0	71,1	109,5	30 800	71,4	109,2	31 200	42,0
44,0	70,0	108,7	28 200	70,3	108,4	28 600	44,0
46,0	68,9	107,9	25 500 *	69,2	107,6	25 900 *	46,0
48,0	67,8	107,0	23 000 *	68,1	106,7	23 400 *	48,0
50,0	66,7	106,1	20 800 *	67,0	105,8	21 100 *	50,0
52,0	65,6	105,2	18 700 *	65,9	104,8	19 000 *	52,0
54,0	64,5	104,2	16 700 *	64,8	103,8	17 100 *	54,0
56,0	63,3	103,1	14 900 *	63,7	102,7	15 300 *	56,0
58,0	62,2	102,0	13 300 *	62,5	101,6	13 600 *	58,0
60,0	61,0	100,8	11 700 *	61,3	100,5	12 000 *	60,0
62,0	59,9	99,6	10 300 *	60,2	99,2	10 500 *	62,0
64,0	58,7	98,3	8 900 *	59,0	98,0	9 200 *	64,0
66,0	57,5	97,0	7 600 *	57,7	96,6	7 900 *	66,0
68,0	56,2	95,6	6 400 *	56,5	95,2	6 600 *	68,0
70,0	55,0	94,1	5 300 *	55,3	93,7	5 500 *	70,0