

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
18,3M BOOM	4,3	83,5	208,6 *	20
	4,5	82,8	208,6 *	20
	5,0	81,2	206,6 *	20
	6,0	78,1	172,2 *	20
	7,0	74,9	146,1	20
	8,0	71,6	115,3	19
	9,0	68,3	94,9	19
	10,0	64,9	80,5	18
	11,0	61,3	69,8	18
	12,0	57,7	61,4	17
	13,0	53,9	54,7	16
	14,0	49,8	49,3	16
	15,0	45,5	44,7	15
	16,0	40,8	40,9	13
	17,0	35,5	37,6	12
	18,0	29,4	34,8	10
	19,0	21,6	32,3	8
21,3M BOOM	4,6	83,6	208,6 *	23
	5,0	82,5	206,5 *	23
	6,0	79,8	172,1 *	23
	7,0	77,1	146,3	23
	8,0	74,3	115,4	23
	9,0	71,5	95,0	22
	10,0	68,7	80,6	22
	11,0	65,7	69,8	21
	12,0	62,7	61,4	21
	13,0	59,7	54,8	20
	14,0	56,5	49,3	20
	15,0	53,2	44,7	19
	16,0	49,7	41,0	18
	17,0	46,0	37,7	17
	18,0	42,1	34,8	16
	19,0	37,8	32,3	15
	20,0	33,0	30,1	13
22,0	20,3	26,4	9	
24,4M BOOM	4,9	83,7	208,6 *	26
	5,0	83,4	206,3 *	26
	6,0	81,1	171,9 *	26
	7,0	78,7	146,4	26
	8,0	76,3	115,5	26
	9,0	73,9	95,0	25
	10,0	71,4	80,6	25
	11,0	68,9	69,8	25
	12,0	66,4	61,4	24
	13,0	63,8	54,8	24
	14,0	61,1	49,3	23
	15,0	58,4	44,8	23
	16,0	55,6	41,0	22
	17,0	52,6	37,7	21
	18,0	49,6	34,8	20
	19,0	46,4	32,3	19
	20,0	43,0	30,1	18
22,0	35,4	26,4	16	
24,0	25,7	23,4	12	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
27,4M BOOM	5,2	83,7	199,0 *	29
	6,0	82,0	171,8 *	29
	7,0	79,9	146,5	29
	8,0	77,8	115,5	29
	9,0	75,7	95,0	29
	10,0	73,5	80,6	28
	11,0	71,3	69,8	28
	12,0	69,1	61,4	28
	13,0	66,9	54,7	27
	14,0	64,6	49,2	27
	15,0	62,2	44,7	26
	16,0	59,9	40,9	26
	17,0	57,4	37,6	25
	18,0	54,9	34,7	24
	19,0	52,2	32,2	23
	20,0	49,5	30,0	23
22,0	43,7	26,4	21	
24,0	37,1	23,4	18	
26,0	29,3	20,9	15	
28,0	18,4	18,8	10	
30,5M BOOM	5,5	83,8	187,8 *	32
	6,0	82,8	171,7 *	32
	7,0	80,9	146,5	32
	8,0	79,0	115,5	32
	9,0	77,1	95,0	32
	10,0	75,2	80,5	31
	11,0	73,3	69,7	31
	12,0	71,3	61,3	31
	13,0	69,3	54,7	30
	14,0	67,3	49,2	30
	15,0	65,2	44,6	30
	16,0	63,1	40,8	29
	17,0	61,0	37,5	28
	18,0	58,8	34,7	28
	19,0	56,6	32,2	27
	20,0	54,3	30,0	26
22,0	49,5	26,3	25	
24,0	44,2	23,3	23	
26,0	38,5	20,8	20	
28,0	31,8	18,7	17	
30,0	23,3	16,9	13	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
33,5M BOOM	5,8	83,8	177,9 *	35
	6,0	83,5	171,6 *	35
	7,0	81,8	146,5	35
	8,0	80,0	115,5	35
	9,0	78,3	95,0	35
	10,0	76,6	80,5	35
	11,0	74,8	69,7	34
	12,0	73,0	61,3	34
	13,0	71,2	54,7	34
	14,0	69,4	49,2	33
	15,0	67,6	44,6	33
	16,0	65,7	40,8	32
	17,0	63,8	37,5	32
	18,0	61,9	34,6	31
	19,0	60,0	32,1	31
	20,0	58,0	29,9	30
	22,0	53,8	26,3	29
	24,0	49,4	23,3	27
	26,0	44,7	20,8	25
	28,0	39,5	18,7	23
30,0	33,7	17,0	20	
32,0	26,7	15,4	16	
34,0	17,1	14,1	11	
36,6M BOOM	6,1	83,9	166,7 *	38
	7,0	82,4	146,6	38
	8,0	80,9	115,5	38
	9,0	79,3	94,9	38
	10,0	77,7	80,4	38
	11,0	76,1	69,6	38
	12,0	74,5	61,2	37
	13,0	72,9	54,6	37
	14,0	71,2	49,0	37
	15,0	69,5	44,5	36
	16,0	67,9	40,7	36
	17,0	66,2	37,4	35
	18,0	64,4	34,5	35
	19,0	62,7	32,0	34
	20,0	60,9	29,9	34
	22,0	57,2	26,2	33
	24,0	53,4	23,2	31
	26,0	49,4	20,7	29
	28,0	45,1	18,6	27
	30,0	40,4	16,8	25
32,0	35,2	15,3	23	
34,0	29,2	14,0	19	
36,0	21,6	12,8	15	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
39,6M BOOM	6,4	83,9	151,1 *	42
	7,0	83,0	146,6	41
	8,0	81,6	115,5	41
	9,0	80,1	94,8	41
	10,0	78,7	80,3	41
	11,0	77,2	69,5	41
	12,0	75,7	61,1	40
	13,0	74,2	54,4	40
	14,0	72,7	48,9	40
	15,0	71,2	44,3	39
	16,0	69,6	40,6	39
	17,0	68,1	37,3	39
	18,0	66,5	34,4	38
	19,0	64,9	31,9	38
	20,0	63,3	29,8	37
	22,0	60,0	26,1	36
	24,0	56,6	23,1	35
	26,0	53,1	20,6	33
	28,0	49,3	18,5	32
	30,0	45,4	16,7	30
32,0	41,1	15,2	28	
34,0	36,4	13,9	25	
36,0	31,1	12,7	22	
38,0	24,8	11,7	18	
40,0	16,2	10,7	12	
42,7M BOOM	6,7	83,9	136,5 *	45
	7,0	83,5	135,2 *	45
	8,0	82,2	115,5	44
	9,0	80,8	94,8	44
	10,0	79,5	80,3	44
	11,0	78,1	69,5	44
	12,0	76,7	61,0	44
	13,0	75,4	54,3	43
	14,0	74,0	48,8	43
	15,0	72,6	44,2	43
	16,0	71,2	40,5	42
	17,0	69,7	37,1	42
	18,0	68,3	34,3	42
	19,0	66,8	31,7	41
	20,0	65,4	29,7	41
	22,0	62,4	25,9	40
	24,0	59,3	22,9	38
	26,0	56,1	20,4	37
	28,0	52,8	18,3	36
	30,0	49,3	16,5	34
32,0	45,6	15,0	32	
34,0	41,7	13,8	30	
36,0	37,4	12,6	27	
38,0	32,7	11,5	25	
40,0	27,2	10,6	21	
42,0	20,3	9,7	16	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
45,7M BOOM	7,0	83,9	122,2 *	48
	8,0	82,7	115,4	47
	9,0	81,4	94,7	47
	10,0	80,2	80,1	47
	11,0	78,9	69,3	47
	12,0	77,6	60,8	47
	13,0	76,3	54,2	46
	14,0	75,1	48,7	46
	15,0	73,8	44,1	46
	16,0	72,4	40,3	46
	17,0	71,1	37,0	45
	18,0	69,8	34,1	45
	19,0	68,5	31,6	44
	20,0	67,1	29,5	44
	22,0	64,4	25,8	43
	24,0	61,5	22,8	42
	26,0	58,6	20,3	41
	28,0	55,6	18,2	39
	30,0	52,5	16,4	38
	32,0	49,3	14,9	36
	34,0	45,9	13,6	34
36,0	42,2	12,4	32	
38,0	38,3	11,4	30	
40,0	34,0	10,5	27	
42,0	29,1	9,6	24	
44,0	23,3	8,9	19	
46,0	15,4	8,2	13	
48,8M BOOM	7,3	84,0	105,3 *	51
	8,0	83,1	104,9 *	51
	9,0	82,0	94,7	50
	10,0	80,8	80,0	50
	11,0	79,6	69,2	50
	12,0	78,4	60,7	50
	13,0	77,2	54,1	50
	14,0	76,0	48,6	49
	15,0	74,8	44,0	49
	16,0	73,6	40,2	49
	17,0	72,3	36,9	48
	18,0	71,1	34,0	48
	19,0	69,9	31,5	48
	20,0	68,6	29,4	47
	22,0	66,1	25,7	46
	24,0	63,5	22,7	45
	26,0	60,8	20,2	44
	28,0	58,1	18,1	43
	30,0	55,2	16,3	42
	32,0	52,3	14,8	40
	34,0	49,3	13,5	39
36,0	46,1	12,4	37	
38,0	42,7	11,3	35	
40,0	39,1	10,4	32	
42,0	35,1	9,5	30	
44,0	30,7	8,8	26	
46,0	25,6	8,1	22	
48,0	19,3	7,5	17	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
51,8M BOOM	7,6	84,0	91,1 *	54
	8,0	83,5	90,9 *	54
	9,0	82,4	90,3 *	53
	10,0	81,3	80,1	53
	11,0	80,2	69,1	53
	12,0	79,1	60,6	53
	13,0	78,0	54,0	53
	14,0	76,8	48,4	52
	15,0	75,7	43,8	52
	16,0	74,6	40,1	52
	17,0	73,4	36,8	52
	18,0	72,3	33,9	51
	19,0	71,1	31,3	51
	20,0	69,9	29,3	51
	22,0	67,5	25,5	50
	24,0	65,1	22,5	49
	26,0	62,7	20,0	48
	28,0	60,1	17,9	47
	30,0	57,6	16,1	45
	32,0	54,9	14,7	44
	34,0	52,1	13,4	43
	36,0	49,3	12,2	41
	38,0	46,2	11,2	39
	40,0	43,1	10,2	37
42,0	39,7	9,4	35	
44,0	36,1	8,6	32	
46,0	32,0	7,9	29	
48,0	27,5	7,3	25	
50,0	22,1	6,7	21	
52,0	14,9	6,2	15	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
54,9M BOOM	7,9	84,0	79,3 *	57
	8,0	83,9	79,3 *	57
	9,0	82,9	78,8 *	57
	10,0	81,8	78,3 *	56
	11,0	80,8	69,0	56
	12,0	79,7	60,5	56
	13,0	78,6	53,8	56
	14,0	77,6	48,3	56
	15,0	76,5	43,9	55
	16,0	75,4	40,0	55
	17,0	74,4	36,6	55
	18,0	73,3	33,7	55
	19,0	72,2	31,2	54
	20,0	71,1	29,1	54
	22,0	68,9	25,4	53
	24,0	66,6	22,4	52
	26,0	64,3	19,9	51
	28,0	62,0	17,7	50
	30,0	59,6	16,0	49
	32,0	57,1	14,6	48
	34,0	54,6	13,2	46
	36,0	52,0	12,1	45
	38,0	49,2	11,0	43
	40,0	46,4	10,1	41
	42,0	43,4	9,2	39
	44,0	40,3	8,5	37
46,0	36,9	7,8	34	
48,0	33,2	7,2	32	
50,0	29,1	6,6	28	
52,0	24,3	6,1	24	
54,0	18,5	5,6	19	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
57,9M BOOM	8,5	83,7	70,4 *	60
	9,0	83,2	70,4 *	60
	10,0	82,2	69,9 *	59
	11,0	81,2	69,1	59
	12,0	80,2	60,6	59
	13,0	79,2	53,7	59
	14,0	78,2	48,2	59
	15,0	77,2	43,7	59
	16,0	76,2	39,8	58
	17,0	75,2	36,5	58
	18,0	74,2	33,6	58
	19,0	73,1	31,0	57
	20,0	72,1	29,0	57
	22,0	70,0	25,2	56
	24,0	67,9	22,2	56
	26,0	65,7	19,7	55
	28,0	63,6	17,6	54
	30,0	61,3	15,8	53
	32,0	59,0	14,4	51
	34,0	56,7	13,1	50
	36,0	54,3	11,9	49
	38,0	51,8	10,8	47
	40,0	49,2	9,9	46
	42,0	46,5	9,1	44
	44,0	43,7	8,3	42
	46,0	40,8	7,6	39
	48,0	37,6	7,0	37
	50,0	34,2	6,4	34
52,0	30,4	5,9	31	
54,0	26,2	5,4	27	
56,0	21,1	5,0	22	
58,0	14,4	4,5	16	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
61,0M BOOM	8,8	83,7	62,2 *	63
	9,0	83,6	62,2 *	63
	10,0	82,6	61,7 *	63
	11,0	81,7	61,3 *	62
	12,0	80,7	60,4	62
	13,0	79,8	53,6	62
	14,0	78,8	48,0	62
	15,0	77,9	43,6	62
	16,0	76,9	39,7	61
	17,0	75,9	36,3	61
	18,0	75,0	33,4	61
	19,0	74,0	30,9	61
	20,0	73,0	28,8	60
	22,0	71,0	25,1	60
	24,0	69,0	22,0	59
	26,0	67,0	19,5	58
	28,0	65,0	17,4	57
	30,0	62,9	15,6	56
	32,0	60,7	14,2	55
	34,0	58,6	12,9	54
	36,0	56,3	11,7	52
	38,0	54,0	10,7	51
	40,0	51,7	9,7	50
	42,0	49,2	8,9	48
	44,0	46,7	8,1	46
	46,0	44,0	7,4	44
	48,0	41,2	6,8	42
	50,0	38,2	6,3	39
	52,0	35,1	5,7	37
	54,0	31,6	5,2	33
56,0	27,7	4,8	30	
58,0	23,3	4,4	25	
60,0	17,8	4,0	20	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
64,0M BOOM	9,1	83,7	55,3 *	66
	10,0	83,0	54,9 *	66
	11,0	82,1	54,9 *	65
	12,0	81,2	54,9 *	65
	13,0	80,3	53,6	65
	14,0	79,4	48,1	65
	15,0	78,5	43,4	65
	16,0	77,5	39,5	65
	17,0	76,6	36,2	64
	18,0	75,7	33,3	64
	19,0	74,8	30,7	64
	20,0	73,8	28,7	63
	22,0	72,0	24,9	63
	24,0	70,1	21,9	62
	26,0	68,2	19,4	61
	28,0	66,2	17,3	60
	30,0	64,3	15,5	60
	32,0	62,3	14,1	58
	34,0	60,2	12,8	57
	36,0	58,1	11,6	56
	38,0	56,0	10,5	55
	40,0	53,8	9,6	53
	42,0	51,5	8,8	52
	44,0	49,2	8,0	50
	46,0	46,8	7,3	48
	48,0	44,2	6,7	46
	50,0	41,6	6,1	44
	52,0	38,8	5,6	42
	54,0	35,8	5,1	39
	56,0	32,6	4,7	36
58,0	29,1	4,3	33	
60,0	25,1	3,9	29	
62,0	20,3	3,5	24	
64,0	14,1	3,2	17	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
67,1M BOOM	9,4	83,8	50,6 *	69
	10,0	83,3	50,4 *	69
	11,0	82,4	50,1 *	69
	12,0	81,6	49,6 *	68
	13,0	80,7	49,2 *	68
	14,0	79,8	48,0	68
	15,0	79,0	43,3	68
	16,0	78,1	39,4	68
	17,0	77,2	36,0	67
	18,0	76,4	33,1	67
	19,0	75,5	30,6	67
	20,0	74,6	28,5	67
	22,0	72,8	24,8	66
	24,0	71,0	21,7	65
	26,0	69,2	19,2	65
	28,0	67,4	17,1	64
	30,0	65,5	15,3	63
	32,0	63,6	14,0	62
	34,0	61,7	12,6	61
	36,0	59,7	11,4	60
	38,0	57,7	10,4	58
	40,0	55,7	9,4	57
	42,0	53,6	8,6	56
	44,0	51,4	7,8	54
	46,0	49,2	7,1	52
	48,0	46,9	6,5	51
	50,0	44,5	5,9	49
	52,0	42,0	5,4	46
	54,0	39,3	4,9	44
	56,0	36,5	4,5	41
58,0	33,5	4,1	38	
60,0	30,2	3,7	35	
62,0	26,6	3,3	31	
64,0	22,4	3,0	27	
66,0	17,2	2,7	21	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
70,1M BOOM	9,8	83,8	45,7 *	72
	10,0	83,6	45,6 *	72
	11,0	82,8	45,2 *	72
	12,0	81,9	44,9 *	72
	13,0	81,1	44,5 *	71
	14,0	80,3	44,1 *	71
	15,0	79,5	43,2	71
	16,0	78,6	39,2	71
	17,0	77,8	35,9	71
	18,0	77,0	32,9	70
	19,0	76,1	30,4	70
	20,0	75,3	28,4	70
	22,0	73,6	24,6	69
	24,0	71,9	21,6	69
	26,0	70,1	19,0	68
	28,0	68,4	16,9	67
	30,0	66,6	15,1	66
	32,0	64,8	13,8	65
	34,0	63,0	12,4	64
	36,0	61,2	11,3	63
	38,0	59,3	10,2	62
	40,0	57,4	9,3	61
	42,0	55,4	8,4	59
	44,0	53,4	7,7	58
	46,0	51,3	7,0	56
	48,0	49,2	6,3	55
	50,0	47,0	5,8	53
	52,0	44,7	5,3	51
	54,0	42,3	4,8	49
	56,0	39,8	4,3	46
	58,0	37,1	3,9	44
	60,0	34,3	3,5	41
	62,0	31,2	3,2	38
	64,0	27,9	2,8	34
	66,0	24,1	2,5	30
68,0	19,6	2,2	25	
70,0	13,8	1,9	18	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
73,2M BOOM	10,1	83,8	41,2 *	75
	11,0	83,1	40,8 *	75
	12,0	82,3	40,4 *	75
	13,0	81,5	40,1 *	74
	14,0	80,7	39,7 *	74
	15,0	79,9	39,4 *	74
	16,0	79,1	39,0 *	74
	17,0	78,3	35,7	74
	18,0	77,5	32,8	73
	19,0	76,7	30,2	73
	20,0	75,9	28,2	73
	22,0	74,3	24,5	72
	24,0	72,7	21,4	72
	26,0	71,0	18,9	71
	28,0	69,3	16,7	70
	30,0	67,7	14,9	70
	32,0	66,0	13,6	69
	34,0	64,2	12,3	68
	36,0	62,5	11,1	67
	38,0	60,7	10,0	66
	40,0	58,9	9,1	64
	42,0	57,0	8,2	63
	44,0	55,1	7,5	62
	46,0	53,2	6,8	60
	48,0	51,2	6,2	59
	50,0	49,2	5,6	57
	52,0	47,0	5,1	55
	54,0	44,9	4,6	53
	56,0	42,6	4,1	51
	58,0	40,2	3,7	49
60,0	37,7	3,3	46	
62,0	35,0	3,0	43	
64,0	32,2	2,6	40	
66,0	29,0	2,3	37	
68,0	25,6	2,0	33	
70,0	21,6	1,8	28	

BOOM LENGTH (METERS)	RADIUS (METERS)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (TONNES)	FROM BOOM POINT TO GROUND (METERS)
76,2M BOOM	10,4	83,8	37,3 *	78
	11,0	83,3	37,0 *	78
	12,0	82,6	36,7 *	78
	13,0	81,8	36,3 *	78
	14,0	81,1	36,2 *	77
	15,0	80,3	36,2 *	77
	16,0	79,5	36,2 *	77
	17,0	78,8	35,8	77
	18,0	78,0	32,9	77
	19,0	77,2	30,3	76
	20,0	76,5	28,1	76
	22,0	74,9	24,3	76
	24,0	73,4	21,2	75
	26,0	71,8	18,7	74
	28,0	70,2	16,6	74
	30,0	68,6	14,8	73
	32,0	67,0	13,5	72
	34,0	65,3	12,1	71
	36,0	63,7	10,9	70
	38,0	62,0	9,9	69
	40,0	60,3	8,9	68
	42,0	58,5	8,1	67
	44,0	56,7	7,3	65
	46,0	54,9	6,6	64
	48,0	53,0	6,0	63
	50,0	51,1	5,4	61
	52,0	49,2	4,9	59
	54,0	47,1	4,4	57
	56,0	45,0	4,0	56
	58,0	42,8	3,5	53
60,0	40,6	3,2	51	
62,0	38,2	2,8	49	
64,0	35,7	2,5	46	
66,0	33,0	2,1	43	
68,0	30,1	1,9	40	
70,0	26,9	1,6	36	



This rating chart is invalid if the crane has been modified or altered by use of other than GENUINE AMERICAN PARTS as such modifications or alterations may affect its capacity or safe operation. See American Crane Corporation Service Bulletin #259.

Ratings in this chart are in TONNES and do not exceed the percentage of tipping specified for this crane by ANSI B30.5. All ratings require that the crane be standing level on a firm uniformly supporting surface.

Do not lift loads in excess of those shown on this chart. Lifting loads in excess of those shown or operation not in accordance with good operating practice, including limitations shown on page 3499 of Operator's Manual, can cause tipping, structural damage or catastrophic failure,

Asterisk (*) areas on this chart indicate ratings that are limited by strength of material or factors other than stability (tipping).

" RADIUS IN METERS " is the horizontal distance at ground level from the crane centerline of rotation to a vertical line through the center of gravity of the suspended load.

When using the main boom fall with jib in place, the main fall ratings must be reduced by the jib effective weight shown on the jib rating chart plus twice the weight of all suspended blocks, slings, rope, etc., at the jib fall. See Appendix A.

When using the main boom fall with boom tip extension in place, the main fall ratings must be reduced by the weight of the boom tip extension plus twice the weight of all suspended blocks, slings, rope, etc., at the boom tip extension fall. See Appendix A.

Blocks, slings, buckets and other load carrying devices are considered part of the load. The weight of standard hoisting ropes for the rating at a given radius has been calculated as part of the boom point load and need not be considered in determining net allowable loads. See Appendix A.

This chart was developed exclusively for use with a boom only. Under no circumstances are these ratings to be interpreted for use with a jib.

Ratings shown on this chart make no allowance for such factors as out of plumb loads, wind, poor soil conditions, improper inflation of rubber tires and dynamic effects due to excessive operating speeds. The user (operator) must exercise judgment to make allowance for these conditions. See page 3499 of Operator's Manual for detailed information.

No account is taken of the wind force on the load. The user must consider this effect, which can be substantial for loads with large surface areas. In any wind it is strongly recommended that taglines be used to control the load.

BOOM HOIST LINE –

18 parts of 22,2 mm diameter EIPS wire rope with a minimum breaking strength of 354,0 kN.

BOOM PENDANT SUSPENSION –

4 parts of 34,9 mm diameter EEIPS wire rope with a minimum breaking strength of 938,5 kN.

MAIN LOAD LINE –

28,5 mm diameter EEIPS wire rope with a minimum breaking strength of 636,1 kN.

ALTERNATE LOAD LINE (ROTATION RESISTANT) –

28,5 millimeter diameter BRIDON ENDURANCE DYFORM 34LR Grade 2160 wire rope with a minimum breaking strength of 743,8 kN.

ERECTION

Erection "OVER-THE-END BLOCKED" is with the boom over the idler end with idler tumblers blocked (See *HC230 Operator's Manual* for blocking instructions). Erection "OVER-THE-SIDE" is with the boom 90° to the side frames. Blocks, slings and other load carrying devices must be on the ground during erection.

77ST HAMMERHEAD TIP BOOM MAXIMUM BOOM & JIB SELF-ERECTION DATA				
JIB	OVER-THE-SIDE		OVER-THE-END BLOCKED	
	BOOM LENGTH (METERS)	JIB LENGTH (METERS)	BOOM LENGTH (METERS)	JIB LENGTH (METERS)
16HL	73,2 70,1	15,2 27,4	76,2	30,5

LOAD HOISTING INFORMATION - 28,5 mm diameter EEIPS wire rope			
MAXIMUM LIFTING CAPACITY - TONNES	MINIMUM PARTS OF LINE	MAXIMUM HOISTING DISTANCE - METERS	
		MAIN HOIST	AUX HOIST
208,6	12	32,0	32,0
203,8	11	33,5	33,5
185,3	10	39,5	39,5
166,7	9	44,0	44,0
148,2	8	49,5	49,5
129,7	7	56,0	56,0
111,1	6	66,0	66,0
92,6	5	79,0	79,0
74,1	4	99,5	99,5
55,5	3	132,5	132,5
37,0	2	199,5	199,5
18,5	1	399,0	399,0

LOAD HOISTING INFORMATION (ROTATION RESISTANT LOAD LINE)			
28,5 mm diameter BRIDON ENDURANCE DYFORM 34LR Grade 2160 wire rope			
MAXIMUM LIFTING CAPACITY - TONNES	MINIMUM PARTS OF LINE	MAXIMUM HOISTING DISTANCE - METERS	
		MAIN HOIST	AUX HOIST
182,0	12	32,0	32,0
166,8	11	33,5	33,5
151,6	10	39,5	39,5
136,5	9	44,0	44,0
121,3	8	49,5	49,5
106,1	7	56,0	56,0
91,0	6	66,0	66,0
75,8	5	79,0	79,0
60,6	4	99,5	99,5
45,5	3	132,5	132,5
30,3	2	199,5	199,5
15,1	1	399,0	399,0

BOOM COMPOSITION CHART - 77ST HAMMERHEAD							
BOOM LENGTH (FEET)	BOOM SECTIONS						
	7,6 M 92HI INNER	4,6 M 92/77 TRANSITION	3,0 M 77S CENTER	6,1 M 77S CENTER	15,2 M 77S CENTER	5,9 M 77HL OUTER	0 M HAMMER HEAD
18,3	1	1	0	0	0	1	1
21,3	1	1	1	0	0	1	1
24,4	1	1	0	1	0	1	1
27,4	1	1	1	1	0	1	1
30,5	1	1	0	2	0	1	1
33,5	1	1	0	0	1	1	1
36,6	1	1	1	0	1	1	1
39,6	1	1	0	1	1	1	1
42,7	1	1	1	1	1	1	1
45,7	1	1	0	2	1	1	1
48,8	1	1	0	0	2	1	1
51,8	1	1	1	0	2	1	1
54,9	1	1	0	1	2	1	1
57,9	1	1	1	1	2	1	1
61,0	1	1	0	2	2	1	1
64,0	1	1	0	0	3	1	1
67,1	1	1	1	0	3	1	1
70,1	1	1	0	1	3	1	1
73,2	1	1	1	1	3	1	1
76,2	1	1	0	2	3	1	1