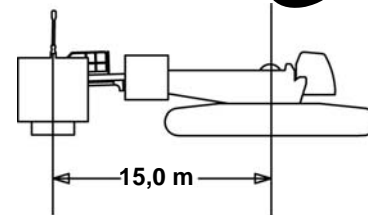


Liftcrane Boom Capacities

Boom No. 58 HL with 30,0 m Mast No. 59A
150 590 kg Crane Counterweight
54 430 kg Carbody Counterweight
0 kg thru 222 190 kg Hanging Counterweight
at 15,0 m Position
360 Degree Rating



16000 MAX-ER



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 an asterisk (*).

Standard upper boom point capacity for liftcrane service with single part whip line is 13 610 kg or 27 220 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom 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.



HANGING COUNTERWEIGHT: Hanging counterweight must be attached to machine and MAX-ER mode must be selected to operate. Exit MAX-ER mode before operating without hanging counterweight.



MINIMUM LIFTING CAPACITY TO SWING AND TRAVEL: Minimum lifting capacity to raise hanging counterweight free of ground support is required for swing and travel. Do not allow hanging counterweight to contact ground while swinging and traveling.

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. 8745-A**, and 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.

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

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 Swing and Travel Specification chart **No. 8798-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.



BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with MAX-ER, 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 and hanging counterweight as specified.


WARNING: Check amount of crane counterweight and hanging counterweight on machine before use of this chart. Refer to Operator's Manual for counterweight identification.

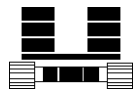
Boom Catwalks Deduct

Deduct 550 kg from capacities when boom catwalks are attached.

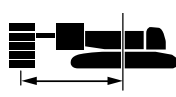
Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side or End of Unblocked Crawlers
With 0 kg Hanging Counterweight	
96,0 m	90,0 m
With 62 530 kg Hanging Counterweight	
120,0 m	114,0 m
Over Side or End of Unblocked Crawlers	
With 142 360 kg Hanging Counterweight	With 222 190 kg Hanging Counterweight
120,0 m	120,0 m
Load block, hook and weight ball on ground at start.	


Explanation of Symbols


58 HL  Boom No. 58 Heavy Lift Top

 Crane Counterweight + Carbody Counterweight


 360° 360 Degree Rating


 Hanging Counterweight Position from Axis of Rotation

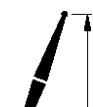
 Boom Length


 Maximum Wind Speed (see page 1)


Explanation of Symbols


 Operating Radius (see page 1)

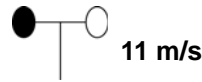
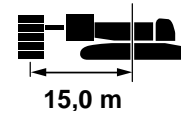
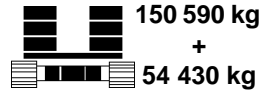
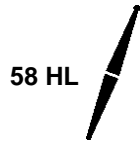
 Boom Angle (see page 1)

 Boom Point Elevation (see page 1)

 Hanging Counterweight

 Lifting Capacities

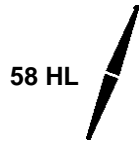
 Minimum Lifting Capacity to Swing and Travel (see page 1)



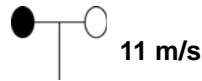
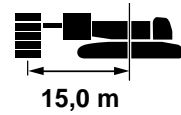
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m	°	m	kg	kg	kg	kg	kg	kg	kg	kg	kg	m	
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8,0	82,7	44,2	334 400	276 400	379 800 *							8,0	
10,0	80,0	43,8	258 900	202 800	339 600 *							10,0	
12,0	77,2	43,4	210 200	158 800	283 400 *	286 900	351 600 *					12,0	
14,0	74,3	42,8	176 100	129 200	242 500 *	236 000	301 100 *					14,0	
16,0	71,4	42,1	150 800	108 100	211 200 *	199 600	262 900 *					16,0	
18,0	68,5	41,3	131 400	92 200	185 600 *	172 300	233 100 *					18,0	
20,0	65,5	40,4	114 400	79 900	164 800 *	151 100	209 000 *	222 400	250 400 *			20,0	
22,0	62,4	39,4	99 800	70 000	147 800 *	134 000	189 000 *	198 100	226 800 *			22,0	
24,0	59,3	38,2	88 200	61 900	133 800 *	120 000	172 400 *	178 300	207 100 *			24,0	
26,0	56,0	36,8	78 600	55 100	121 900	108 400	158 200 *	161 700	190 300 *			26,0	
28,0	52,5	35,3	70 600	49 300	111 300	98 500	145 900 *	147 700	175 900 *			28,0	
30,0	48,9	33,6	63 800	44 400	101 200	90 000	134 900 *	135 600	163 300 *			30,0	
32,0	45,1	31,6	58 000	40 100	92 800	82 600	125 200 *	125 200	152 300 *			32,0	
34,0	41,0	29,3	52 900	36 300	85 400	76 100	116 700 *	116 000	142 500 *			34,0	
36,0	36,5	26,7	48 400	32 900	78 900	70 300	109 100 *	107 800	133 800 *			36,0	
38,0	31,4	23,5	44 500	29 900	73 200	65 200	102 300 *	100 600	126 000 *			38,0	
40,0	25,3	19,6	40 900	27 200	68 000	60 500	96 200 *	94 000	118 900 *			40,0	

16000 MAX-ER

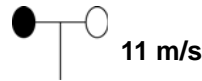
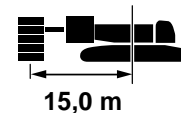
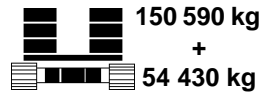
EN 13000



150 590 kg
+
54 430 kg



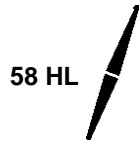
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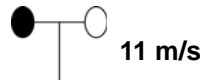
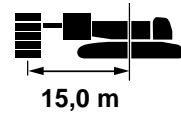
m	°	m	0 kg	62 530 kg		142 360 kg		222 190 kg		m
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10,0	82,2	56,0	235 800	206 900	312 200 *					10,0
12,0	80,1	55,7	193 700	160 900	282 300 *					12,0
14,0	77,9	55,2	163 600	130 400	241 400 *	239 200	302 400 *			14,0
16,0	75,7	54,7	140 900	108 700	210 200 *	201 400	261 800 *			16,0
18,0	73,5	54,1	123 300	92 500	184 700 *	173 500	231 900 *			18,0
20,0	71,2	53,4	109 100	79 800	163 800 *	151 800	207 800 *	224 100	249 200 *	20,0
22,0	69,0	52,7	97 500	69 700	146 800 *	134 400	187 900 *	199 200	225 700 *	22,0
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16000 MAX-ER

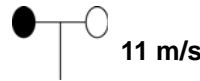
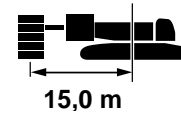
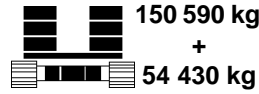
EN 13000



150 590 kg
+
54 430 kg



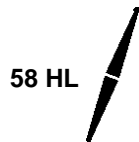
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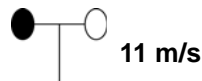
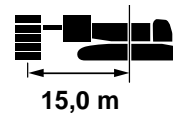
m	°	m	0 kg	62 530 kg		142 360 kg		222 190 kg		m
			kg	kg	kg	kg	kg	kg		
11,0	82,8	68,0	196 400	184 500	251 100 *					11,0
12,0	81,9	67,8	179 200	162 900	251 100 *					12,0
14,0	80,1	67,5	152 500	131 500	235 100					14,0
16,0	78,3	67,1	132 100	109 300	203 900	205 900	245 800 *			16,0
18,0	76,6	66,6	116 000	92 700	180 300	174 600	231 400 *			18,0
20,0	74,8	66,0	102 900	79 900	161 200	152 500	206 800 *			20,0
22,0	72,9	65,4	92 100	69 600	145 400	134 800	187 000 *	202 000	226 300 *	22,0
24,0	71,1	64,7	83 000	61 200	131 900	120 400	170 300 *	179 700	205 000 *	24,0
26,0	69,3	64,0	75 300	54 100	120 100 *	108 400	156 200 *	162 700	188 200 *	26,0
28,0	67,4	63,1	68 600	48 200	109 800	98 200	144 000 *	148 300	173 800 *	28,0
30,0	65,5	62,2	62 500	43 100	100 000	89 500	133 100 *	136 000	161 300 *	30,0
32,0	63,5	61,2	56 600	38 700	91 500	82 000	123 400 *	125 300	150 300 *	32,0
34,0	61,5	60,1	51 500	34 900	84 000	75 300	114 900 *	115 900	140 500 *	34,0
36,0	59,5	59,0	47 000	31 500	77 500	69 500	107 300 *	107 600	131 800 *	36,0
38,0	57,5	57,7	43 000	28 400	71 800	64 300	100 600 *	100 300	124 100 *	38,0
40,0	55,4	56,3	39 500	25 700	66 600	59 700	94 500 *	93 800	117 000 *	40,0
42,0	53,2	54,8	36 300	23 300	62 000	55 500	89 000 *	87 900	110 600 *	42,0
44,0	51,0	53,2	33 500	21 000	57 900	51 700	84 100 *	82 500	104 800 *	44,0
46,0	48,7	51,5	30 900	19 000	54 100	48 300	79 500 *	77 600	99 500 *	46,0
48,0	46,3	49,5	28 500	17 100	50 700	45 100	75 300 *	73 200	94 600 *	48,0
50,0	43,8	47,5	26 300	15 400	47 600	42 200	71 500 *	69 100	90 100 *	50,0
52,0	41,1	45,2	24 400	13 900	44 700	39 600	67 900 *	65 300	86 000 *	52,0
54,0	38,4	42,7	22 500	12 400	42 000	37 100	64 700 *	61 800	82 100 *	54,0
56,0	35,4	40,0	20 800	11 000	39 600	34 800	61 600 *	58 600	78 500 *	56,0
58,0	32,2	36,8	19 200	9 700	37 300	32 600	58 800 *	55 600	75 000 *	58,0
60,0	28,7	33,3	17 700	8 600	35 200	30 600	56 100 *	52 700	71 800 *	60,0
62,0	24,6	29,1	16 300	7 400	33 200	28 700	53 600 *	50 000	68 800 *	62,0
64,0	19,9	24,0	15 000	6 300	31 300	26 900	51 200	47 500	66 000 *	64,0

16000 MAX-ER

EN 13000



150 590 kg
+
54 430 kg

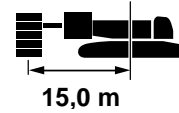


				0 kg		62 530 kg		142 360 kg		222 190 kg			
				kg		kg		kg		kg			
				kg		kg		kg		kg			
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				kg</									

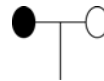
58 HL



150 590 kg
+
54 430 kg



78,0 m

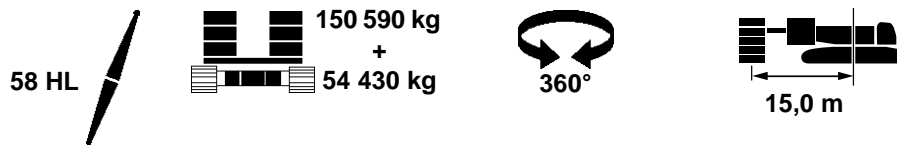


9 m/s

m	°	m	0 kg	62 530 kg		142 360 kg		222 190 kg		m
			kg	kg	kg	kg	kg	kg		
12,2	83,0	79,9	163 300	160 900	205 100 *					12,2
14,0	81,7	79,7	142 100	132 300	203 400					14,0
16,0	80,2	79,3	123 500	109 400	194 300					16,0
18,0	78,7	78,9	108 700	92 500	170 300	173 800	198 900 *			18,0
20,0	77,2	78,5	96 700	79 300	152 600	152 600	196 400 *			20,0
22,0	75,6	77,9	86 500	68 800	137 900	134 600	186 900 *			22,0
24,0	74,1	77,4	78 000	60 300	125 400	120 000	168 900 *			24,0
26,0	72,6	76,7	70 800	53 200	114 800	107 800	154 800 *	162 600	187 100 *	26,0
28,0	71,0	76,1	64 400	47 100	105 600	97 500	142 600 *	147 900	172 400 *	28,0
30,0	69,5	75,3	58 900	42 000	97 500	88 700	131 800 *	135 400	159 900 *	30,0
32,0	67,9	74,5	54 000	37 500	90 300	81 100	122 100 *	124 600	148 900 *	32,0
34,0	66,3	73,6	49 600	33 600	82 800	74 400	113 600 *	115 200	139 100 *	34,0
36,0	64,6	72,7	45 700	30 200	76 300	68 500	106 100 *	106 800	130 500 *	36,0
38,0	63,0	71,6	41 900	27 100	70 600	63 200	99 300 *	99 500	122 700 *	38,0
40,0	61,3	70,5	38 300	24 400	65 400	58 600	93 200 *	92 800	115 700 *	40,0
42,0	59,6	69,4	35 100	21 900	60 800	54 400	87 800 *	86 900	109 300 *	42,0
44,0	57,9	68,1	32 200	19 700	56 700	50 600	82 800 *	81 500	103 500 *	44,0
46,0	56,1	66,8	29 700	17 600	52 900	47 100	78 300 *	76 600	98 200 *	46,0
48,0	54,3	65,3	27 300	15 800	49 500	43 900	74 100 *	72 200	93 300 *	48,0
50,0	52,4	63,8	25 100	14 100	46 400	41 000	70 200 *	68 000	88 800 *	50,0
52,0	50,5	62,2	23 100	12 500	43 500	38 400	66 700 *	64 300	84 700 *	52,0
54,0	48,6	60,4	21 300	11 000	40 900	35 900	63 500 *	60 700	80 800 *	54,0
56,0	46,6	58,5	19 600	9 700	38 400	33 600	60 400 *	57 500	77 200 *	56,0
58,0	44,5	56,5	18 000	8 400	36 100	31 400	57 600 *	54 500	73 800 *	58,0
60,0	42,3	54,3	16 600	7 200	34 000	29 500	54 900 *	51 700	70 600 *	60,0
62,0	40,0	52,0	15 200	6 100	32 000	27 600	52 500 *	49 100	67 600 *	62,0
64,0	37,6	49,4	13 900	5 100	30 200	25 900	50 000	46 600	64 900 *	64,0
66,0	35,1	46,6	12 600	4 100	28 400	24 200	47 700	44 300	62 200 *	66,0
68,0	32,4	43,5	11 500	3 200	26 800	22 600	45 400	42 100	59 700 *	68,0
70,0	29,5	40,0	10 400	2 300	25 300	21 200	43 300	40 100	57 400 *	70,0
72,0	26,2	36,1	9 400	1 500	23 800	19 700	41 400	38 100	55 200 *	72,0
74,0	22,6	31,5	8 400		22 500	18 400	39 500	36 200	53 100 *	74,0
76,0	18,2	25,9	7 500		21 100	17 100	37 700	34 400	51 000 *	76,0

16000 MAX-ER

EN 13000



				0 kg		62 530 kg		142 360 kg		222 190 kg		
m	°	m	kg	kg	kg	kg	kg	kg	kg	kg	m	
13,7	82,5	85,8	139 900	136 400	177 000 *						13,7	
14,0	82,3	85,8	137 200	132 800	177 000 *						14,0	
16,0	80,9	85,4	119 300	109 300	177 000 *						16,0	
18,0	79,5	85,1	105 100	92 200	165 400						18,0	
20,0	78,1	84,6	93 500	78 900	148 400	153 200	176 800 *				20,0	
22,0	76,7	84,2	83 800	68 300	134 200	134 400	174 000 *				22,0	
24,0	75,3	83,6	75 500	59 600	122 100	119 600	167 400 *				24,0	
26,0	73,9	83,0	68 400	52 500	111 800	107 300	154 000 *				26,0	
28,0	72,4	82,4	62 200	46 400	102 800	96 900	141 800 *				28,0	
30,0	71,0	81,7	56 800	41 200	94 900	88 100	131 000 *	135 300	158 700 *		30,0	
32,0	69,5	81,0	52 100	36 700	87 900	80 400	121 300 *	124 100	148 100 *		32,0	
34,0	68,1	80,2	47 800	32 800	81 700	73 700	112 800 *	114 600	138 300 *		34,0	
36,0	66,6	79,3	44 000	29 400	75 600	67 800	105 300 *	106 300	129 600 *		36,0	
38,0	65,1	78,3	40 600	26 300	69 800	62 500	98 500 *	98 800	121 900 *		38,0	
40,0	63,5	77,3	37 400	23 500	64 700	57 800	92 500 *	92 200	114 800 *		40,0	
42,0	62,0	76,3	34 300	21 100	60 000	53 600	87 000 *	86 200	108 500 *		42,0	
44,0	60,4	75,2	31 500	18 800	55 900	49 800	82 000 *	80 800	102 700 *		44,0	
46,0	58,8	73,9	28 900	16 800	52 200	46 300	77 400 *	75 900	97 400 *		46,0	
48,0	57,2	72,7	26 500	14 900	48 700	43 100	73 300 *	71 400	92 500 *		48,0	
50,0	55,6	71,3	24 300	13 200	45 600	40 200	69 500 *	67 300	88 000 *		50,0	
52,0	53,9	69,8	22 300	11 600	42 700	37 500	66 000 *	63 500	83 900 *		52,0	
54,0	52,1	68,3	20 500	10 100	40 100	35 000	62 700 *	60 000	80 000 *		54,0	
56,0	50,4	66,6	18 800	8 800	37 600	32 800	59 600 *	56 700	76 400 *		56,0	
58,0	48,6	64,9	17 200	7 500	35 300	30 600	56 800 *	53 800	73 100 *		58,0	
60,0	46,7	63,0	15 700	6 300	33 200	28 600	54 200 *	50 900	69 900 *		60,0	
62,0	44,8	61,0	14 400	5 200	31 200	26 800	51 700 *	48 300	66 900 *		62,0	
64,0	42,8	58,8	13 100	4 200	29 400	25 000	49 300	45 900	64 100 *		64,0	
66,0	40,7	56,5	11 900	3 200	27 700	23 400	46 900	43 600	61 400 *		66,0	
68,0	38,5	54,0	10 800	2 300	26 100	21 800	44 700	41 400	59 000 *		68,0	
70,0	36,2	51,3	9 700	1 400	24 500	20 300	42 600	39 300	56 600 *		70,0	
72,0	33,8	48,4	8 700		23 100	19 000	40 600	37 400	54 400 *		72,0	
74,0	31,2	45,2	7 700		21 700	17 700	38 700	35 500	52 300 *		74,0	
76,0	28,4	41,5	6 800		20 400	16 400	37 000	33 800	50 400 *		76,0	
78,0	25,2	37,4	5 900		19 200	15 200	35 300	32 100	48 500 *		78,0	
80,0	21,7	32,7	5 000 *		18 000	14 000	33 600	30 500	46 600 *		80,0	
82,0	17,5	26,8	4 100 *		16 800 *	12 900	32 100	28 900	44 400 *		82,0	

58 HL



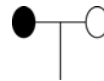
150 590 kg
+
54 430 kg

360°

15,0 m



90,0 m

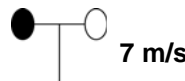
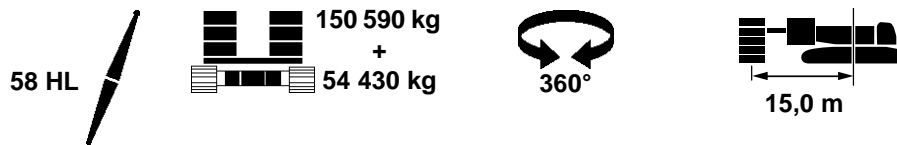


9 m/s

m	°	m	0 kg	62 530 kg		142 360 kg		222 190 kg		m
			kg	kg	kg	kg	kg	kg		
13,7	83,0	91,8	135 200							13,7
14,0	82,8	91,8	132 700							14,0
16,0	81,5	91,5	115 600	109 900	148 400 *					16,0
18,0	80,2	91,2	102 000	92 200	148 400 *					18,0
20,0	78,9	90,8	90 800	78 800	145 200					20,0
22,0	77,6	90,3	81 400	68 100	130 900					22,0
24,0	76,3	89,8	73 400	59 500	119 200	120 200	145 300 *			24,0
26,0	75,0	89,3	66 500	52 300	109 200	107 200	142 400 *			26,0
28,0	73,6	88,7	60 500	46 100	100 500	96 800	139 100 *			28,0
30,0	72,3	88,1	55 200	40 900	92 800	87 900	131 000 *			30,0
32,0	71,0	87,4	50 600	36 400	86 000	80 200	120 900 *			32,0
34,0	69,6	86,6	46 400	32 400	79 900	73 500	112 400 *	114 800	132 000 *	34,0
36,0	68,2	85,8	42 700	29 000	74 500	67 500	104 800 *	106 100	128 500 *	36,0
38,0	66,8	85,0	39 300	25 900	69 400	62 200	98 100 *	98 600	121 500 *	38,0
40,0	65,4	84,0	36 300	23 100	64 300	57 500	92 000 *	92 000	114 400 *	40,0
42,0	64,0	83,1	33 500	20 600	59 700	53 300	86 500 *	86 000	108 000 *	42,0
44,0	62,6	82,0	30 900	18 400	55 500	49 400	81 600 *	80 600	102 200 *	44,0
46,0	61,1	80,9	28 500	16 400	51 700	46 000	77 000 *	75 600	96 900 *	46,0
48,0	59,7	79,8	26 100	14 500	48 300	42 800	72 900 *	71 100	92 100 *	48,0
50,0	58,2	78,5	23 900	12 700	45 200	39 900	69 100 *	67 000	87 600 *	50,0
52,0	56,6	77,2	22 000	11 200	42 300	37 200	65 500 *	63 200	83 500 *	52,0
54,0	55,1	75,8	20 100	9 700	39 700	34 700	62 300 *	59 700	79 600 *	54,0
56,0	53,5	74,3	18 400	8 400	37 200	32 400	59 200 *	56 400	76 000 *	56,0
58,0	51,9	72,8	16 800	7 100	35 000	30 200	56 400 *	53 400	72 700 *	58,0
60,0	50,2	71,1	15 400	5 900	32 800	28 300	53 800 *	50 600	69 500 *	60,0
62,0	48,5	69,3	14 000	4 800	30 900	26 400	51 300 *	48 000	66 500 *	62,0
64,0	46,8	67,5	12 700	3 800	29 000	24 600	48 900	45 500	63 700 *	64,0
66,0	45,0	65,5	11 500	2 800	27 300	23 000	46 500	43 200	61 100 *	66,0
68,0	43,1	63,3	10 400	1 900	25 700	21 500	44 300	41 100	58 600 *	68,0
70,0	41,2	61,1	9 300	1 000	24 200	20 000	42 200	39 000	56 300 *	70,0
72,0	39,2	58,7	8 300		22 700	18 600	40 200	37 100	54 100 *	72,0
74,0	37,1	56,0	7 300		21 300	17 300	38 400	35 200	52 000 *	74,0
76,0	34,9	53,2	6 400		20 000	16 100	36 600	33 500	50 000 *	76,0
78,0	32,6	50,1	5 600 *		18 800	14 900	34 900	31 800	48 100 *	78,0
80,0	30,1	46,8	4 600 *		17 600	13 800	33 300	30 300	46 300 *	80,0
82,0	27,4	43,0	3 800 *		16 500 *	12 700	31 800	28 800	44 600 *	82,0
84,0	24,4	38,7			15 300 *	11 600	30 400	27 300	43 000 *	84,0
86,0	20,9	33,7			14 100 *	10 700	29 000	25 900	41 400 *	86,0
88,0	16,9	27,6			13 000 *	9 700	27 600	24 600	38 900 *	88,0

16000 MAX-ER

EN 13000

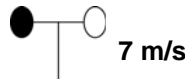
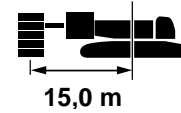


m	°	m	0 kg		62 530 kg		142 360 kg		222 190 kg		m
			kg	kg	kg	kg	kg	kg	kg	kg	
15,2	82,5	97,7	117 400								15,2
16,0	82,0	97,6	111 900								16,0
18,0	80,8	97,2	98 600	92 100	126 900 *						18,0
20,0	79,6	96,9	87 700	78 300	126 900 *						20,0
22,0	78,4	96,5	78 600	67 500	124 800						22,0
24,0	77,2	96,0	70 900	58 700	116 400						24,0
26,0	75,9	95,5	64 200	51 500	106 200	106 800	126 900 *				26,0
28,0	74,7	95,0	58 300	45 300	97 700	96 100	126 800 *				28,0
30,0	73,4	94,4	53 200	40 100	90 200	87 200	126 600 *				30,0
32,0	72,2	93,7	48 600	35 500	83 600	79 400	120 000 *				32,0
34,0	70,9	93,0	44 500	31 500	77 600	72 600	111 500 *				34,0
36,0	69,7	92,3	40 900	28 100	72 300	66 700	104 000 *	105 700	124 100 *		36,0
38,0	68,4	91,5	37 600	25 000	67 500	61 400	97 200 *	97 900	120 400 *		38,0
40,0	67,1	90,6	34 600	22 200	63 100	56 600	91 200 *	91 100	113 400 *		40,0
42,0	65,8	89,7	31 800	19 600	58 800	52 400	85 700 *	85 100	107 100 *		42,0
44,0	64,4	88,8	29 300	17 400	54 600	48 500	80 700 *	79 700	101 300 *		44,0
46,0	63,1	87,8	27 000	15 300	50 800	45 000	76 200 *	74 700	96 000 *		46,0
48,0	61,7	86,7	24 900	13 500	47 400	41 800	72 000 *	70 200	91 100 *		48,0
50,0	60,4	85,5	22 900	11 800	44 300	38 900	68 200 *	66 100	86 700 *		50,0
52,0	59,0	84,3	21 100	10 200	41 400	36 200	64 600 *	62 300	82 500 *		52,0
54,0	57,6	83,1	19 200	8 700	38 700	33 700	61 400 *	58 700	78 700 *		54,0
56,0	56,1	81,7	17 500	7 300	36 300	31 400	58 300 *	55 500	75 100 *		56,0
58,0	54,7	80,3	15 900	6 100	34 100	29 300	55 500 *	52 500	71 700 *		58,0
60,0	53,2	78,8	14 500	4 900	31 900	27 300	52 900 *	49 700	68 600 *		60,0
62,0	51,7	77,2	13 100	3 800	30 000	25 400	50 400 *	47 100	65 600 *		62,0
64,0	50,1	75,6	11 800	2 800	28 100	23 600	48 000	44 600	62 800 *		64,0
66,0	48,5	73,8	10 600	1 800	26 400	22 000	45 600	42 300	60 200 *		66,0
68,0	46,9	71,9	9 500	900	24 800	20 500	43 400	40 100	57 700 *		68,0
70,0	45,2	70,0	8 400		23 200	19 000	41 300	38 100	55 400 *		70,0
72,0	43,5	67,9	7 400		21 800	17 700	39 300	36 200	53 200 *		72,0
74,0	41,7	65,6	6 400		20 400	16 400	37 500	34 300	51 100 *		74,0
76,0	39,8	63,3	5 500 *		19 200	15 100	35 700	32 600	49 100 *		76,0
78,0	37,9	60,7	4 500 *		17 900 *	13 900	34 100	30 900	47 300 *		78,0
80,0	35,9	58,0	3 600 *		16 600 *	12 800	32 500	29 400	45 500 *		80,0
82,0	33,7	55,0			15 400 *	11 800	31 000	27 900	43 800 *		82,0
84,0	31,5	51,8			14 300 *	10 700	29 500	26 500	42 200 *		84,0
86,0	29,1	48,3			13 200 *	9 800	28 100 *	25 100	40 600 *		86,0
88,0	26,4	44,4			12 100 *	8 800	26 700 *	23 800	39 100 *		88,0
92,0	20,2	34,8			10 100 *	7 000	24 000 *	21 300	36 100 *		92,0

58 HL



150 590 kg
+
54 430 kg



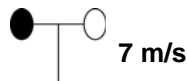
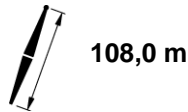
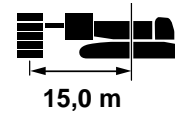
m	°	m	62 530 kg		142 360 kg		222 190 kg		m
			kg	kg	kg	kg	kg	kg	
18,0	81,4	103,3	91 100	107 800 *					18,0
20,0	80,2	103,0	78 200	107 800 *					20,0
22,0	79,1	102,6	67 300	107 700 *					22,0
24,0	77,9	102,2	58 400	107 600 *					24,0
26,0	76,8	101,7	51 100	103 800					26,0
28,0	75,6	101,2	44 900	95 400					28,0
30,0	74,4	100,6	39 600	88 100	87 100	106 500 *			30,0
32,0	73,3	100,0	35 100	81 600	79 100	105 800 *			32,0
34,0	72,1	99,4	31 100	75 800	72 300	105 000 *			34,0
36,0	70,9	98,7	27 500	70 600	66 300	102 900 *			36,0
38,0	69,7	97,9	24 400	65 900	60 900	96 800 *			38,0
40,0	68,5	97,1	21 600	61 600	56 200	90 600 *	91 200	102 700 *	40,0
42,0	67,3	96,3	19 100	57 700	51 900	85 100 *	84 800	102 000 *	42,0
44,0	66,1	95,4	16 800	54 000	48 000	80 200 *	79 300	100 500 *	44,0
46,0	64,8	94,5	14 800	50 300	44 500	75 600 *	74 300	95 500 *	46,0
48,0	63,6	93,5	12 900	46 900	41 300	71 500 *	69 800	90 600 *	48,0
50,0	62,3	92,4	11 200	43 800	38 400	67 700 *	65 700	86 100 *	50,0
52,0	61,0	91,3	9 600	40 900	35 700	64 100 *	61 800	82 000 *	52,0
54,0	59,7	90,2	8 100	38 200	33 200	60 900 *	58 300	78 100 *	54,0
56,0	58,4	88,9	6 800	35 800	30 900	57 900 *	55 000	74 600 *	56,0
58,0	57,0	87,6	5 500	33 500	28 800	55 000 *	52 000	71 200 *	58,0
60,0	55,7	86,2	4 300	31 400	26 800	52 400 *	49 200	68 100 *	60,0
62,0	54,3	84,8	3 200	29 400	24 900	49 900 *	46 500	65 100 *	62,0
64,0	52,9	83,3	2 200	27 600	23 100	47 500	44 100	62 300 *	64,0
66,0	51,5	81,7	1 200	25 900	21 500	45 100	41 800	59 700 *	66,0
68,0	50,0	80,0		24 200	19 900	42 900	39 600	57 200 *	68,0
70,0	48,5	78,3		22 800	18 500	40 800	37 600	54 900 *	70,0
72,0	47,0	76,4		21 300	17 100	38 800	35 700	52 700 *	72,0
74,0	45,4	74,4		19 900	15 800	37 000	33 800	50 600 *	74,0
76,0	43,8	72,4		18 600	14 600	35 200	32 100	48 700 *	76,0
78,0	42,1	70,2		17 300 *	13 400	33 600	30 500	46 800 *	78,0
80,0	40,4	67,8		16 000 *	12 300	32 000	28 900	45 000 *	80,0
82,0	38,6	65,3		14 800 *	11 300	30 500	27 400	43 300 *	82,0
84,0	36,7	62,7		13 700 *	10 200	29 000 *	26 000	41 700 *	84,0
86,0	34,8	59,8		12 600 *	9 300	27 600 *	24 600	40 200 *	86,0
88,0	32,7	56,8		11 500 *	8 400	26 200 *	23 400	38 700 *	88,0
92,0	28,2	49,8		9 600 *	6 600	23 500 *	20 900	35 900 *	92,0
96,0	22,8	41,1		7 700 *	5 000	21 100 *	18 600	33 400 *	96,0

16000 MAX-ER

EN 13000



150 590 kg
+
54 430 kg

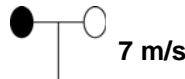
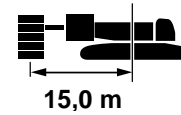


m	°	m	62 530 kg		142 360 kg		222 190 kg		m
			kg	kg	kg	kg	kg	kg	
20,0	80,8	109,1	77 900	92 900 *					20,0
22,0	79,7	108,7	66 600	92 800 *					22,0
24,0	78,6	108,3	57 700	92 700 *					24,0
26,0	77,5	107,9	50 300	92 400 *					26,0
28,0	76,4	107,4	44 100	91 200					28,0
30,0	75,3	106,9	38 800	85 900					30,0
32,0	74,2	106,3	34 200	79 300	78 300	90 400 *			32,0
34,0	73,1	105,7	30 200	73 600	71 500	89 700 *			34,0
36,0	72,0	105,0	26 700	68 500	65 500	89 000 *			36,0
38,0	70,9	104,3	23 500	63 900	60 100	88 300 *			38,0
40,0	69,8	103,6	20 700	59 700	55 400	87 500 *			40,0
42,0	68,6	102,8	18 200	55 800	51 100	84 700 *			42,0
44,0	67,5	102,0	15 900	52 300	47 200	79 300 *			44,0
46,0	66,3	101,1	13 900	49 000	43 700	74 800 *	73 600	85 600 *	46,0
48,0	65,1	100,2	12 000	46 000	40 400	70 600 *	68 900	84 900 *	48,0
50,0	64,0	99,2	10 200	42 900	37 500	66 800 *	64 800	84 300 *	50,0
52,0	62,8	98,2	8 700	40 100	34 800	63 300 *	61 000	81 200 *	52,0
54,0	61,6	97,1	7 200	37 400	32 300	60 000 *	57 500	77 300 *	54,0
56,0	60,3	95,9	5 800	34 900	30 000	57 000 *	54 200	73 700 *	56,0
58,0	59,1	94,7	4 500	32 600	27 800	54 200 *	51 200	70 400 *	58,0
60,0	57,8	93,5	3 300	30 600	25 800	51 600 *	48 300	67 300 *	60,0
62,0	56,6	92,2	2 200	28 600	24 000	49 100	45 700	64 300 *	62,0
64,0	55,3	90,8	1 200	26 800	22 200	46 600	43 200	61 500 *	64,0
66,0	54,0	89,3		25 000	20 600	44 200	40 900	58 900 *	66,0
68,0	52,6	87,8		23 400	19 000	42 000	38 700	56 400 *	68,0
70,0	51,3	86,2		21 900	17 600	39 900	36 700	54 100 *	70,0
72,0	49,9	84,5		20 500	16 200	38 000	34 800	51 900 *	72,0
74,0	48,5	82,8		19 000 *	14 900	36 100	32 900	49 800 *	74,0
76,0	47,0	80,9		17 600 *	13 700	34 400	31 200	47 900 *	76,0
78,0	45,5	78,9		16 300 *	12 500	32 700	29 600	46 000 *	78,0
80,0	44,0	76,9		15 000 *	11 400	31 100	28 000	44 200 *	80,0
82,0	42,5	74,7		13 800 *	10 300	29 500 *	26 500	42 500 *	82,0
84,0	40,8	72,4		12 700 *	9 300	28 000 *	25 100	40 900 *	84,0
86,0	39,2	70,0		11 600 *	8 400	26 600 *	23 800	39 400 *	86,0
88,0	37,4	67,4		10 500 *	7 400	25 200 *	22 500	37 900 *	88,0
92,0	33,7	61,7		8 600 *	5 700	22 500 *	20 100	35 100 *	92,0
96,0	29,6	55,0		6 800 *	4 100	20 100 *	17 800	32 600 *	96,0
100,0	24,9	47,0		5 100 *	2 700	17 900 *	15 800	30 300 *	100,0
104,0	19,0	36,8		3 500 *	1 200	15 800 *	13 800	24 600 *	104,0

58 HL



150 590 kg
+
54 430 kg



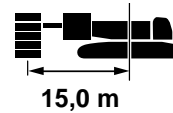
m	°	m	62 530 kg		142 360 kg		222 190 kg		m
			kg	kg	kg	kg	kg	kg	
22,0	80,2	114,8	67 100	79 500 *					22,0
24,0	79,2	114,4	57 300	79 300 *					24,0
26,0	78,2	114,0	49 900	78 800 *					26,0
28,0	77,2	113,6	43 600	78 200 *					28,0
30,0	76,1	113,1	38 300	77 600 *					30,0
32,0	75,1	112,5	33 700	77 000 *					32,0
34,0	74,0	111,9	29 600	71 800					34,0
36,0	73,0	111,3	26 100	66 700	65 400	75 700 *			36,0
38,0	71,9	110,7	22 900	62 100	59 600	75 100 *			38,0
40,0	70,9	110,0	20 100	57 900	54 800	74 500 *			40,0
42,0	69,8	109,2	17 600	54 100	50 500	73 900 *			42,0
44,0	68,7	108,5	15 300	50 700	46 600	73 300 *			44,0
46,0	67,6	107,6	13 200	47 500	43 100	72 600 *			46,0
48,0	66,5	106,8	11 300	44 600	39 900	70 300 *			48,0
50,0	65,4	105,9	9 600	41 900	36 900	66 200 *	63 900	71 400 *	50,0
52,0	64,3	104,9	8 000	39 400	34 200	62 700 *	60 400	70 800 *	52,0
54,0	63,2	103,9	6 500	36 800	31 700	59 400 *	56 900	70 200 *	54,0
56,0	62,0	102,8	5 100	34 300	29 400	56 400 *	53 600	69 600 *	56,0
58,0	60,9	101,7	3 900	32 100	27 200	53 600 *	50 600	69 000 *	58,0
60,0	59,7	100,5	2 700	29 900	25 200	51 000 *	47 700	66 800 *	60,0
62,0	58,6	99,3	1 600	28 000	23 300	48 500	45 100	63 700 *	62,0
64,0	57,4	98,0		26 100	21 600	46 000	42 600	60 900 *	64,0
66,0	56,1	96,7		24 400	19 900	43 600	40 300	58 300 *	66,0
68,0	54,9	95,3		22 800	18 400	41 400	38 100	55 800 *	68,0
70,0	53,7	93,8		21 300	16 900	39 300	36 100	53 500 *	70,0
72,0	52,4	92,3		19 800 *	15 600	37 400	34 200	51 300 *	72,0
74,0	51,1	90,7		18 300 *	14 300	35 500	32 300	49 300 *	74,0
76,0	49,8	89,0		16 900 *	13 000	33 800	30 600	47 300 *	76,0
78,0	48,5	87,2		15 600 *	11 900	32 100	29 000	45 400 *	78,0
80,0	47,1	85,4		14 300 *	10 800	30 500 *	27 400	43 700 *	80,0
82,0	45,7	83,4		13 100 *	9 700	28 900 *	25 900	42 000 *	82,0
84,0	44,3	81,4		12 000 *	8 700	27 300 *	24 500	40 400 *	84,0
86,0	42,8	79,2		10 900 *	7 800	25 900 *	23 200	38 800 *	86,0
88,0	41,3	77,0		9 900 *	6 800	24 500 *	21 900	37 300 *	88,0
92,0	38,1	72,0		7 900 *	5 100	21 900 *	19 500	34 600 *	92,0
96,0	34,6	66,5		6 100 *	3 500	19 500 *	17 300	32 100 *	96,0
100,0	30,8	60,1		4 500 *	2 100	17 300 *	15 200	29 800 *	100,0
104,0	26,6	52,6				15 200 *	13 300	27 000 *	104,0
108,0	21,5	43,4				13 300 *	11 600	16 800 *	108,0

16000 MAX-ER

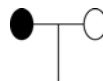
EN 13000



150 590 kg
+
54 430 kg



120,0 m



7 m/s

m	°	m	62 530 kg		142 360 kg		222 190 kg		m
			kg	kg	kg	kg	kg	kg	
24,0	79,8	120,6	57 000	68 600 *					24,0
26,0	78,8	120,2	48 900	68 200 *					26,0
28,0	77,8	119,7	42 600	67 700 *					28,0
30,0	76,8	119,2	37 200	67 100 *					30,0
32,0	75,8	118,7	32 600	66 500 *					32,0
34,0	74,9	118,2	28 500	66 000 *					34,0
36,0	73,9	117,6	24 900	64 200					36,0
38,0	72,9	117,0	21 800	59 700					38,0
40,0	71,9	116,3	18 900	55 500	53 900	62 300 *			40,0
42,0	70,8	115,6	16 400	51 800	49 400	61 100 *			42,0
44,0	69,8	114,9	14 100	48 400	45 500	59 900 *			44,0
46,0	68,8	114,1	12 000	45 300	42 000	58 800 *			46,0
48,0	67,8	113,3	10 100	42 500	38 700	57 600 *			48,0
50,0	66,7	112,4	8 400	39 900	35 700	56 400 *			50,0
52,0	65,7	111,5	6 800	37 400	33 000	55 200 *			52,0
54,0	64,6	110,6	5 300	35 200	30 500	54 000 *			54,0
56,0	63,6	109,6	3 900	33 100	28 200	52 800 *			56,0
58,0	62,5	108,6	2 700	31 000	26 000	51 600 *			58,0
60,0	61,4	107,5	1 500	28 900	24 000	50 100 *			60,0
62,0	60,3	106,3		26 900	22 100	47 400	43 900	49 200 *	62,0
64,0	59,2	105,1		25 000	20 400	44 900	41 500	48 000 *	64,0
66,0	58,1	103,9		23 300	18 800	42 500	39 200	46 800 *	66,0
68,0	56,9	102,6		21 600 *	17 200	40 300	37 000	45 700 *	68,0
70,0	55,8	101,2		20 000 *	15 800	38 200	34 900	44 500 *	70,0
72,0	54,6	99,8		18 400 *	14 300	36 300	33 000	43 300 *	72,0
74,0	53,4	98,3		17 000 *	13 100	34 400	31 200	42 100 *	74,0
76,0	52,2	96,8		15 600 *	11 900	32 600	29 500	40 900 *	76,0
78,0	51,0	95,2		14 300 *	10 700	30 800 *	27 800	39 700 *	78,0
80,0	49,7	93,5		13 000 *	9 600	29 200 *	26 200	38 500 *	80,0
82,0	48,4	91,7		11 800 *	8 500	27 600 *	24 800	37 300 *	82,0
84,0	47,1	89,8		10 700 *	7 500	26 000 *	23 400	36 600 *	84,0
86,0	45,8	87,9		9 600 *	6 600	24 600 *	22 000	36 000 *	86,0
88,0	44,5	85,9		8 600 *	5 700	23 200 *	20 700	35 400 *	88,0
92,0	41,6	81,5		6 600 *	3 900	20 600 *	18 400	33 600 *	92,0
96,0	38,6	76,7		4 900 *	2 400	18 200 *	16 100	31 100 *	96,0
100,0	35,4	71,3		3 300 *	900	16 000 *	14 100	28 800 *	100,0
104,0	31,9	65,1				14 000 *	12 200	26 300 *	104,0
108,0	28,0	58,0				12 100 *	10 500	23 900 *	108,0
112,0	23,5	49,5				10 300 *	8 800	21 600 *	112,0
116,0	18,0	38,7				8 600 *	7 200	17 800 *	116,0