

Liftcrane Boom Capacities

Boom No. B60:500
with Mast No. M10:503 or Mast No. M11:503
135 100 kg VPC (Variable Position Counterweight)
Crawler Machine on a Barge
0 Degree thru 2 Degree Static Machine List
No Travel - 360 Degree Rating

MLC300 VPC-MAX SERIES 1



LIFTING CAPACITIES: Lifting capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. Lifting capacities for various boom lengths and operating radii are for freely suspended loads and may be based on percent of static tipping or strength of structural components. Capacities must be reduced by applicable deducts.

Upper boom point capacity for liftcrane service with single part whip line from Drum 6 is 13 600 kg or 27 200 kg with two part whip line. When Drum 2 or Drum 3 is used, capacity with single part whip line is 16 600 kg or 33 300 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 and jib point sheaves is considered part of the 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.

BOOM BACKWARD STABILITY: Capacities indicated by (b) require 4 530 kg minimum weight suspended beneath lower boom point, (c) require 9 970 kg minimum weight, and (d) require 13 600 kg minimum weight. **Caution: Do not operate in areas indicated by (b), (c), or (d) without required minimum weight. Boom may not lower and boom hoist wire rope may go slack causing wire rope damage or failure.**

OPERATING CONDITIONS: Machine to operate on a firm and uniformly supporting surface with machine list not to exceed degrees noted. Refer to Boom Rigging **No. 81023382**, Mast Rigging **No. 81025690** or **No. 84045340**, Wire Rope Specification chart **No. 9434-A**, Counterweight Arrangements chart **No. 9345-A**, and Wind Conditions chart **No. 9435-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to the Operator Manual for operating guidelines.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation at barge deck 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 barge deck to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with VPC-MAX, 9 700 mm crawlers, 1 219 mm or 1 524 mm treads, 9 144 mm live mast, 30,0 m mast, 10 part boom hoist reeving, boom support straps, and 135 100 kg VPC.

Warning: Luffing jib backstay straps must be removed before use of this chart. *Crane tipping or structural damage can occur.*

Consult chart **No. 9656-AM** when Jib No. 148 is attached.

Deduct From Capacities When Jib No. 148 Is Attached	
Jib Length (m)	Deduct (kg)
12,0	14 300
18 0	17 900
24,0	22 300
30,0	27 100
36,0	34 100
42,0	38 900
Weight of jib and 2 950 kg suspended beneath jib point have been included in determination of deduct.	

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Refer to Tables 1 and 2 for raising ability with the maximum weight of all load blocks, hooks, weight ball, slings, and hoist lines beneath boom point sheaves. For block weights shown with #, load blocks, hooks, weight ball, and slings must remain on barge deck until combined weights are within rated capacity of chart. Raising is not permitted in shaded areas of table.

Select counterweight position from Tables 1 or 2 that will allow raising and lowering of boom length. Counterweight position selection may be changed with boom on barge deck or while boom is within operating range of capacity chart.

Combined weight beneath boom point sheaves must not exceed block weight shown.

Table 1

Over End or Side of Crawlers						
Boom Length (m)	Counterweight Position					
	10,6 m			14,6 m		
	Machine List					
	0°	1°	2°	0°	1°	2°
	Block Weight (kg)					
42,0	10 300	10 300	10 300	10 300	10 300	10 300
48,0	10 300	10 300	10 300	10 300	10 300	10 300
54,0	10 300	10 300	10 300	10 300	10 300	10 300
60,0	10 300	10 300	10 300	10 300	10 300	10 300
66,0	10 300	10 300	10 300	10 300	10 300	10 300
72,0	10 300	10 300	10 300	10 300	10 300	10 300
78,0	7 100	7 100	7 100	10 300	10 300	10 300
84,0	3 700	3 700	3 700	10 300	10 300	10 300
90,0	3 700	3 700	3 700	10 300	10 300	10 300
96,0	3 700	#	#	3 700	#	#
102,0	#	#	#	#	#	#
108,0				#	#	#
114,0				#	#	
120,0				#		

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Table 2

Over End of Blocked Crawlers						
Boom Length (m)	Counterweight Position					
	10,6 m			14,6 m		
	Machine List					
	0°	1°	2°	0°	1°	2°
	Block Weight (kg)					
42,0	10 300	10 300	10 300	10 300	10 300	10 300
48,0	10 300	10 300	10 300	10 300	10 300	10 300
54,0	10 300	10 300	10 300	10 300	10 300	10 300
60,0	10 300	10 300	10 300	10 300	10 300	10 300
66,0	10 300	10 300	10 300	10 300	10 300	10 300
72,0	10 300	10 300	10 300	10 300	10 300	10 300
78,0	7 100	7 100	7 100	10 300	10 300	10 300
84,0	3 700	3 700	3 700	10 300	10 300	10 300
90,0	3 700	3 700	3 700	10 300	10 300	10 300
96,0	3 700	#	#	3 700	#	#
102,0	#	#	#	#	#	#
108,0	#	#	#	#	#	#
114,0	#			#	#	
120,0				#		
Warning: Crane must remain in-line with crawlers when raising over end of blocked crawlers until operating radius is within 360 degree chart. <i>Crane tipping or structural damage can occur.</i>						

Explanation of Symbols



Boom No. B60:500



VPC (Variable Position Counterweight)



360 Degree Rating



Boom Length



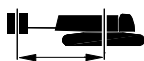
Operating Radius
(see page 1)



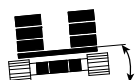
Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Counterweight Position
from Axis of Rotation



Machine List



Lifting Capacities
(see page 1)

MLC300 VPC-MAX S-1



B60



135 100 kg



360°

42,0 m

42,0 m									
			10,6 m			14,6 m			
m	°	m	kg	kg	kg	kg	kg	kg	m
6,7	84,4	43,9	300 000c			300 000c			6,7
7,0	84,0	43,8	300 000c			300 000c			7,0
8,0	82,6	43,7	298 900b	227 300c	171 000d	299 200b	227 300c	171 000d	8,0
9,0	81,2	43,5	272 100b	227 300c	171 000c	287 400b	227 300c	171 000c	9,0
10,0	79,8	43,3	237 900b	217 400b	171 000c	274 500b	227 300b	171 000c	10,0
12,0	77,0	42,9	188 900	175 400b	163 600b	270 300	215 000b	171 000b	12,0
14,0	74,2	42,3	156 000	146 400	137 800b	229 300	209 000	171 000b	14,0
16,0	71,3	41,6	132 000	124 900	118 400	190 600	178 400	164 300	16,0
18,0	68,4	40,8	113 600	108 100	103 100	162 100	153 000	144 800	18,0
20,0	65,4	39,9	99 200	94 900	91 000	140 700	133 700	127 200	20,0
22,0	62,3	38,9	87 800	84 300	81 100	124 100	118 500	113 400	22,0
24,0	59,1	37,7	78 300	75 500	72 900	110 500	106 100	101 900	24,0
26,0	55,8	36,3	70 300	68 000	65 800	99 400	95 700	92 300	26,0
28,0	52,4	34,8	63 600	61 700	59 900	90 200	87 100	84 300	28,0
30,0	48,8	33,1	57 800	56 200	54 700	82 300	79 700	77 300	30,0
32,0	45,0	31,1	52 700	51 300	50 100	75 400	73 300	71 300	32,0
34,0	40,9	28,8	48 200	47 200	46 100	69 600	67 800	66 100	34,0
36,0	36,3	26,2	44 300	43 400	42 600	64 400	62 900	61 500	36,0
38,0	31,2	23,0	40 800	40 000	39 400	59 800	58 500	57 300	38,0
40,0	25,2	19,1	37 600	37 000	36 500	55 700	54 700	53 700	40,0

MLC300 VPC-MAX S-1



B60



135 100 kg



360°

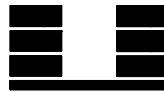
48,0 m

48,0 m									
			10,6 m			14,6 m			
			0°	1°	2°	0°	1°	2°	
m	°	m	kg	kg	kg	kg	kg	kg	m
7,3	84,4	49,8	278 000 b			278 000 b			7,3
8,0	83,5	49,8	278 000 b	218 400 c		278 000 b	218 400 c		8,0
9,0	82,3	49,6	269 200 b	218 400 b	164 300 c	272 500 b	218 400 b	164 300 c	9,0
10,0	81,1	49,4	238 000	213 000 b	164 300 c	260 800	216 000 b	164 300 c	10,0
12,0	78,7	49,0	188 900	173 500	159 500 b	250 200	201 500	164 300 b	12,0
14,0	76,2	48,5	155 800	144 800	135 200 b	229 500	192 000	163 300 b	14,0
16,0	73,7	48,0	131 800	123 600	116 300	190 700	176 800	157 100	16,0
18,0	71,2	47,3	113 300	107 000	101 300	162 100	151 700	142 500	18,0
20,0	68,7	46,5	98 900	93 900	89 400	140 600	132 600	125 300	20,0
22,0	66,1	45,6	87 400	83 400	79 700	123 900	117 600	111 700	22,0
24,0	63,4	44,6	77 900	74 600	71 500	110 400	105 200	100 400	24,0
26,0	60,6	43,5	69 900	67 100	64 600	99 200	94 900	90 900	26,0
28,0	57,8	42,2	63 200	60 900	58 700	90 000	86 400	83 000	28,0
30,0	54,9	40,8	57 300	55 400	53 600	82 000	79 000	76 200	30,0
32,0	51,9	39,3	52 200	50 600	49 100	75 200	72 600	70 200	32,0
34,0	48,7	37,5	47 800	46 400	45 100	69 300	67 100	65 100	34,0
36,0	45,4	35,6	43 900	42 700	41 600	64 100	62 300	60 500	36,0
38,0	41,9	33,4	40 300	39 300	38 400	59 500	57 900	56 400	38,0
40,0	38,0	30,9	37 200	36 300	35 500	55 400	54 000	52 700	40,0
42,0	33,8	28,0	34 300	33 600	32 900	51 700	50 600	49 400	42,0
44,0	29,1	24,6	31 700	31 100	30 600	48 400	47 400	46 500	44,0
46,0	23,4	20,3	29 300	28 900	28 400	45 400	44 600	43 800	46,0

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B60



135 100 kg



360°

54,0 m

			10,6 m			14,6 m			
			0°	1°	2°	0°	1°	2°	
m	°	m	kg	kg	kg	kg	kg	kg	m
7,3	85,0	55,9	251 200b			251 200b			7,3
8,0	84,3	55,8	251 200b			251 200b			8,0
9,0	83,2	55,7	251 200	196 600b		251 200	196 600b		9,0
10,0	82,1	55,5	238 300	196 600b	140 700c	247 200	196 600b	140 700c	10,0
12,0	80,0	55,2	189 100	171 900	140 700b	232 200	188 500	140 700b	12,0
14,0	77,8	54,7	156 000	143 700	133 000b	226 800	178 500	140 700b	14,0
16,0	75,6	54,2	131 900	122 700	114 600	190 900	171 100	140 700	16,0
18,0	73,4	53,6	113 400	106 300	99 900	162 300	150 700	138 200	18,0
20,0	71,1	52,9	99 000	93 400	88 300	140 800	131 800	123 700	20,0
22,0	68,9	52,2	87 500	82 900	78 800	124 100	116 900	110 400	22,0
24,0	66,6	51,3	78 000	74 200	70 700	110 500	104 700	99 300	24,0
26,0	64,2	50,3	69 900	66 800	63 900	99 300	94 500	90 000	26,0
28,0	61,8	49,3	63 200	60 600	58 100	90 100	86 000	82 200	28,0
30,0	59,3	48,1	57 400	55 100	53 000	82 100	78 700	75 500	30,0
32,0	56,8	46,8	52 300	50 300	48 500	75 300	72 300	69 600	32,0
34,0	54,2	45,3	47 900	46 200	44 600	69 400	66 900	64 500	34,0
36,0	51,5	43,8	43 900	42 500	41 100	64 200	62 000	59 900	36,0
38,0	48,7	42,0	40 400	39 100	38 000	59 600	57 700	55 800	38,0
40,0	45,7	40,1	37 200	36 200	35 100	55 500	53 800	52 200	40,0
42,0	42,6	38,0	34 400	33 500	32 600	51 800	50 400	49 000	42,0
44,0	39,3	35,6	31 800	31 000	30 200	48 500	47 200	46 000	44,0
46,0	35,7	32,8	29 400	28 700	28 100	45 500	44 400	43 300	46,0
48,0	31,8	29,7	27 200	26 700	26 100	42 700	41 800	40 900	48,0
50,0	27,3	26,0	25 200	24 700	24 300	40 200	39 400	38 600	50,0
52,0	22,0	21,4	23 400	23 000	22 600	37 900	37 200	36 500	52,0

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B60



135 100 kg



360°

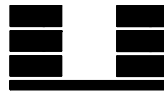
60,0 m

			10,6 m			14,6 m			
m	°	m	kg	kg	kg	kg	kg	kg	m
7,9	84,9	61,8	226 800			226 800			7,9
8,0	84,8	61,9	226 800			226 800			8,0
9,0	83,9	61,7	226 800			226 800			9,0
10,0	82,9	61,6	226 800	164 400b		226 800	164 400b		10,0
12,0	81,0	61,3	188 600	164 400	118 400b	216 000	164 400	118 400b	12,0
14,0	79,0	60,9	155 400	141 800	118 300	212 400	163 500	118 400	14,0
16,0	77,1	60,4	131 300	121 100	112 100	190 600	159 800	118 400	16,0
18,0	75,1	59,9	112 800	104 900	97 800	162 000	148 600	118 400	18,0
20,0	73,1	59,3	98 300	92 000	86 400	140 400	130 500	117 600	20,0
22,0	71,1	58,6	86 800	81 700	77 000	123 700	115 700	108 600	22,0
24,0	69,0	57,8	77 200	73 000	69 100	110 100	103 600	97 700	24,0
26,0	67,0	57,0	69 200	65 700	62 400	98 800	93 500	88 500	26,0
28,0	64,9	56,0	62 500	59 500	56 700	89 600	85 100	80 900	28,0
30,0	62,7	55,0	56 600	54 100	51 700	81 700	77 800	74 200	30,0
32,0	60,5	53,9	51 500	49 300	47 200	74 800	71 500	68 400	32,0
34,0	58,3	52,7	47 100	45 200	43 400	68 900	66 000	63 300	34,0
36,0	56,0	51,3	43 200	41 500	39 900	63 700	61 200	58 800	36,0
38,0	53,6	49,8	39 600	38 200	36 800	59 100	56 900	54 800	38,0
40,0	51,2	48,2	36 500	35 200	34 000	55 000	53 100	51 200	40,0
42,0	48,6	46,5	33 600	32 500	31 400	51 300	49 600	48 000	42,0
44,0	46,0	44,6	31 000	30 000	29 100	48 000	46 500	45 000	44,0
46,0	43,2	42,5	28 700	27 800	27 000	45 000	43 600	42 300	46,0
48,0	40,3	40,2	26 500	25 700	25 000	42 200	41 000	39 900	48,0
50,0	37,2	37,6	24 500	23 800	23 200	39 700	38 600	37 600	50,0
52,0	33,8	34,7	22 700	22 100	21 500	37 400	36 500	35 600	52,0
54,0	30,1	31,3	20 900	20 400	20 000	35 200	34 400	33 700	54,0
56,0	25,9	27,4	19 300	18 900	18 500	33 200	32 600	31 900	56,0
58,0	20,8	22,5	17 800	17 500	17 200	31 400	30 800	30 200	58,0

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B60



135 100 kg



360°

66,0 m

			10,6 m			14,6 m			
m	°	m	kg	kg	kg	kg	kg	kg	m
8,5	84,8	67,8	204 100			204 100			8,5
9,0	84,4	67,8	204 100			204 100			9,0
10,0	83,6	67,6	204 100			204 100			10,0
12,0	81,8	67,3	188 600			203 000			12,0
14,0	80,0	67,0	155 400			195 800			14,0
16,0	78,3	66,6	131 200			187 000			16,0
18,0	76,5	66,1	112 700			162 000			18,0
20,0	74,7	65,5	98 200			140 400			20,0
22,0	72,9	64,9	86 700			123 700			22,0
24,0	71,0	64,2	77 100			110 000			24,0
26,0	69,2	63,5	69 000			98 800			26,0
28,0	67,3	62,6	62 300			89 500			28,0
30,0	65,4	61,7	56 500			81 600			30,0
32,0	63,4	60,7	51 400			74 700			32,0
34,0	61,5	59,6	46 900			68 800			34,0
36,0	59,4	58,5	43 000			63 600			36,0
38,0	57,4	57,2	39 500			59 000			38,0
40,0	55,3	55,8	36 300			54 900			40,0
42,0	53,1	54,3	33 500			51 200			42,0
44,0	50,9	52,7	30 900			47 900			44,0
46,0	48,6	50,9	28 500			44 900			46,0
48,0	46,2	49,0	26 400			42 100			48,0
50,0	43,7	47,0	24 400			39 600			50,0
52,0	41,0	44,7	22 500			37 300			52,0
54,0	38,3	42,2	20 800			35 200			54,0
56,0	35,3	39,4	19 200			33 200			56,0
58,0	32,1	36,3	17 800			31 400			58,0
60,0	28,6	32,8	16 400			29 700			60,0
62,0	24,5	28,6	15 100			28 000			62,0
64,0	19,7	23,4	13 800			26 500			64,0

MLC300 VPC-MAX S-1



B60



135 100 kg



360°

72,0 m

			10,6 m			14,6 m			
m	°	m	kg	kg	kg	kg	kg	kg	m
9,1	84,8	73,8	176 900			176 900			9,1
10,0	84,1	73,7	176 900			176 900			10,0
12,0	82,5	73,4	176 900	120 400	86 800	176 900	120 400	86 800	12,0
14,0	80,9	73,1	166 200	120 400	86 800	176 900	120 400	86 800	14,0
16,0	79,3	72,7	140 400	120 300	86 800	174 900	120 400	86 800	16,0
18,0	77,6	72,3	120 600	110 500	86 800	160 600	120 400	86 800	18,0
20,0	76,0	71,8	105 100	97 100	86 300	139 800	120 100	86 800	20,0
22,0	74,3	71,2	92 800	86 300	80 400	123 100	113 600	86 800	22,0
24,0	72,7	70,6	82 600	77 200	72 300	109 400	101 700	86 800	24,0
26,0	71,0	69,9	74 000	69 500	65 300	98 200	91 800	85 900	26,0
28,0	69,3	69,1	66 900	62 900	59 400	88 900	83 500	78 500	28,0
30,0	67,6	68,3	60 600	57 300	54 200	81 000	76 300	72 000	30,0
32,0	65,8	67,4	55 200	52 200	49 600	74 100	70 000	66 300	32,0
34,0	64,1	66,4	50 400	47 900	45 500	68 200	64 700	61 400	34,0
36,0	62,3	65,4	46 200	44 000	41 900	63 000	59 900	57 000	36,0
38,0	60,4	64,3	42 500	40 500	38 600	58 300	55 600	53 100	38,0
40,0	58,6	63,0	39 100	37 400	35 700	54 200	51 800	49 500	40,0
42,0	56,7	61,7	36 100	34 500	33 000	50 600	48 400	46 400	42,0
44,0	54,7	60,3	33 300	31 900	30 600	47 200	45 300	43 500	44,0
46,0	52,7	58,8	30 800	29 600	28 400	44 200	42 500	40 800	46,0
48,0	50,7	57,2	28 500	27 400	26 300	41 500	39 900	38 400	48,0
50,0	48,5	55,4	26 400	25 400	24 400	38 900	37 500	36 200	50,0
52,0	46,4	53,5	24 400	23 500	22 700	36 600	35 400	34 100	52,0
54,0	44,1	51,5	22 600	21 800	21 000	34 500	33 400	32 200	54,0
56,0	41,7	49,3	21 000	20 200	19 500	32 500	31 500	30 500	56,0
58,0	39,2	46,8	19 400	18 700	18 100	30 700	29 800	28 800	58,0
60,0	36,6	44,2	17 900	17 300	16 800	29 000	28 100	27 300	60,0
62,0	33,7	41,3	16 500	16 000	15 500	27 400	26 600	25 900	62,0
64,0	30,7	38,0	15 300	14 800	14 400	25 900	25 200	24 600	64,0
66,0	27,3	34,2	14 000	13 600	13 300	24 500	23 900	23 300	66,0
68,0	23,5	29,8	12 900	12 500	12 200	23 200	22 600	22 100	68,0
70,0	18,9	24,4	11 800	11 500	11 200	21 900	21 500	21 000	70,0

Manitowoc®

_____ _____ _____	_____ _____ _____



139 500	104 500	75 500
120 300	104 500	75 500
104 800	96 100	75 500
92 500	85 400	75 400
82 300	76 300	71 100
73 700	68 700	64 200
66 500	62 200	58 300
60 200	56 500	53 200
54 700	51 600	48 600
50 000	47 200	44 600
45 800	43 300	41 100
42 000	39 900	37 800
38 700	36 700	34 900
35 600	33 900	32 300
32 900	31 300	29 900
30 400	29 000	27 700
28 100	26 800	25 600
26 000	24 800	23 800
24 000	23 000	22 000
22 200	21 300	20 400

MLC300 VPC-MAX S-1



B60



135 100 kg



360°

84,0 m

84,0 m									
			10,6 m			14,6 m			
m	°	m	kg	kg	kg	kg	kg	kg	m
10,4	84,7	85,7	125 100			125 100			10,4
12,0	83,6	85,5	125 100			125 100			12,0
14,0	82,2	85,3	125 100	88 200		125 100	88 200	66 000	14,0
16,0	80,8	84,9	125 100	88 200	66 000	125 100	88 200	66 000	16,0
18,0	79,4	84,6	125 100	88 200	66 000	125 100	88 200	66 000	18,0
20,0	78,0	84,1	111 000	88 200	66 000	125 100	88 200	66 000	20,0
22,0	76,6	83,7	97 200	86 200	66 000	121 000	88 200	66 000	22,0
24,0	75,2	83,1	85 900	78 500	66 000	108 600	88 200	66 000	24,0
26,0	73,8	82,5	76 700	70 500	65 000	97 300	87 900	66 000	26,0
28,0	72,4	81,9	69 100	63 800	59 000	88 000	81 700	66 000	28,0
30,0	70,9	81,2	62 500	58 000	53 900	80 000	74 600	66 000	30,0
32,0	69,5	80,5	56 800	52 900	49 300	73 100	68 400	64 100	32,0
34,0	68,0	79,7	52 000	48 500	45 400	67 200	63 100	59 300	34,0
36,0	66,5	78,8	47 700	44 700	41 900	62 000	58 400	55 000	36,0
38,0	65,0	77,9	43 900	41 200	38 700	57 300	54 100	51 200	38,0
40,0	63,5	76,9	40 500	38 100	35 900	53 200	50 400	47 700	40,0
42,0	61,9	75,8	37 500	35 300	33 300	49 500	47 000	44 600	42,0
44,0	60,4	74,7	34 700	32 800	31 000	46 200	43 900	41 700	44,0
46,0	58,8	73,4	32 300	30 500	28 800	43 200	41 100	39 100	46,0
48,0	57,2	72,2	30 000	28 400	26 900	40 400	38 600	36 800	48,0
50,0	55,5	70,8	27 900	26 500	25 100	37 900	36 200	34 600	50,0
52,0	53,8	69,3	25 800	24 600	23 400	35 600	34 000	32 600	52,0
54,0	52,1	67,8	23 900	22 800	21 800	33 500	32 100	30 700	54,0
56,0	50,3	66,1	22 200	21 200	20 200	31 500	30 200	29 000	56,0
58,0	48,5	64,4	20 500	19 600	18 700	29 700	28 500	27 300	58,0
60,0	46,6	62,5	19 000	18 100	17 300	28 000	26 900	25 800	60,0
62,0	44,7	60,5	17 500	16 800	16 000	26 400	25 400	24 400	62,0
64,0	42,7	58,3	16 200	15 500	14 800	24 900	24 000	23 100	64,0
66,0	40,6	56,0	14 900	14 300	13 700	23 500	22 700	21 900	66,0
68,0	38,4	53,5	13 700	13 100	12 600	22 200	21 400	20 700	68,0
70,0	36,1	50,8	12 600	12 100	11 600	21 000	20 300	19 600	70,0
72,0	33,7	47,9	11 500	11 000	10 600	19 800	19 200	18 500	72,0
74,0	31,1	44,7	10 500	10 100	9 700	18 700	18 100	17 500	74,0
76,0	28,3	41,0	9 500	9 100	8 800	17 700	17 100	16 600	76,0
78,0	25,2	36,9	8 600	8 300	7 900	16 700	16 200	15 700	78,0
80,0	21,7	32,2	7 700	7 400	7 100	15 700	15 300	14 900	80,0
82,0	17,4	26,3	6 800	6 600	6 400	14 800	14 400	14 100	82,0

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██████████	██████████
██████████	██████████
██████████	██████████
██████████	██████████



90,0 m

104 900	72 900	54 900	104 900
104 400	72 900	54 900	104 900
97 100	72 900	54 900	104 900
85 900	72 900	54 900	104 900
76 600	70 000	54 900	97 200
68 900	63 300	54 900	87 900
62 400	57 600	53 000	79 900
56 700	52 500	48 700	73 000
51 900	48 200	44 800	67 100
47 600	44 300	41 400	61 900
43 800	40 900	38 200	57 200
40 400	37 800	35 400	53 100
37 400	35 100	32 900	49 400
34 600	32 500	30 600	46 100
32 100	30 300	28 500	43 100
29 900	28 200	26 500	40 300
27 700	26 200	24 800	37 800
25 700	24 300	23 100	35 500
23 700	22 500	21 400	33 400
22 000	20 900	19 800	31 400

MLC300 VPC-MAX S-1



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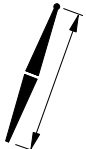
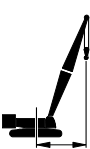
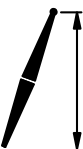
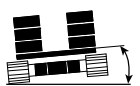
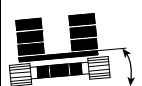
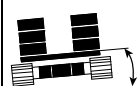
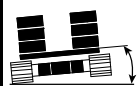
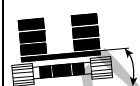
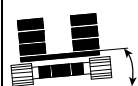


135 100 kg



360°

96,0 m

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

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_____ _____ _____	_____ _____ _____



kg	kg	kg	kg
76 200			76 200
76 200			76 200
76 200	50 500		76 200
76 200	50 500	38 000	76 200
76 200	50 500	38 000	76 200
76 200	50 500	38 000	76 200
76 200	50 500	38 000	76 200
76 200	50 500	38 000	76 200
75 700	50 500	38 000	76 200
68 000	50 500	38 000	76 200
61 500	50 500	38 000	76 200
55 800	50 500	38 000	72 100
50 900	46 800	38 000	66 100
46 600	43 000	38 000	60 900
42 800	39 500	36 500	56 200
39 400	36 500	33 800	52 100
36 400	33 800	31 300	48 500
33 600	31 300	29 100	45 100
31 000	28 900	27 000	42 100
28 600	26 700	24 900	39 300
26 300	24 600	23 000	36 800
24 300	22 700	21 200	34 500

MLC300 VPC-MAX S-1



B60



135 100 kg



360°

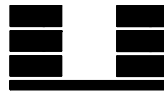
108,0 m

			10,6 m			14,6 m			
m	°	m	kg	kg	kg	kg	kg	kg	m
12,2	84,9	109,7	66 800			66 800			12,2
14,0	83,9	109,5	66 800			66 800			14,0
16,0	82,9	109,2	66 800	42 900		66 800	42 900		16,0
18,0	81,8	108,9	66 800	42 900	31 500	66 800	42 900	31 500	18,0
20,0	80,7	108,6	66 800	42 900	31 500	66 800	42 900	31 500	20,0
22,0	79,6	108,2	66 800	42 900	31 500	66 800	42 900	31 500	22,0
24,0	78,6	107,8	66 800	42 900	31 500	66 800	42 900	31 500	24,0
26,0	77,5	107,4	66 800	42 900	31 500	66 800	42 900	31 500	26,0
28,0	76,4	106,9	65 800	42 900	31 500	66 800	42 900	31 500	28,0
30,0	75,3	106,4	60 800	42 900	31 500	66 800	42 900	31 500	30,0
32,0	74,2	105,8	55 100	42 900	31 500	66 700	42 900	31 500	32,0
34,0	73,1	105,2	50 200	42 900	31 500	64 100	42 900	31 500	34,0
36,0	72,0	104,5	45 900	41 700	31 500	60 200	42 900	31 500	36,0
38,0	70,8	103,8	42 100	38 600	31 500	55 500	42 900	31 500	38,0
40,0	69,7	103,1	38 700	35 600	31 400	51 400	42 900	31 500	40,0
42,0	68,6	102,3	35 600	32 900	30 300	47 700	42 900	31 500	42,0
44,0	67,4	101,5	32 600	30 200	28 000	44 400	41 300	31 500	44,0
46,0	66,3	100,6	30 000	27 800	25 700	41 400	38 600	31 500	46,0
48,0	65,1	99,7	27 500	25 500	23 700	38 600	36 100	31 400	48,0
50,0	63,9	98,7	25 300	23 500	21 800	36 100	33 800	31 400	50,0
52,0	62,7	97,7	23 200	21 500	20 000	33 800	31 700	29 700	52,0
54,0	61,5	96,6	21 300	19 800	18 300	31 600	29 700	27 900	54,0
56,0	60,3	95,4	19 600	18 100	16 800	29 700	27 900	26 200	56,0
58,0	59,0	94,2	17 900	16 600	15 400	27 800	26 200	24 700	58,0
60,0	57,8	93,0	16 400	15 200	14 000	26 100	24 600	23 200	60,0
62,0	56,5	91,7	14 900	13 800	12 800	24 600	23 200	21 800	62,0
64,0	55,2	90,3	13 600	12 600	11 600	23 100	21 800	20 500	64,0
66,0	53,9	88,8	12 300	11 400	10 500	21 700	20 500	19 300	66,0
68,0	52,6	87,3	11 200	10 300	9 400	20 400	19 300	18 200	68,0
70,0	51,2	85,7	10 000	9 200	8 400	19 200	18 100	17 100	70,0
72,0	49,8	84,0	9 000	8 200	7 500	18 000	17 000	16 100	72,0
74,0	48,4	82,2	8 000	7 200	6 600	16 900	16 000	15 100	74,0
76,0	47,0	80,4	7 000	6 300	5 700	15 900	15 000	14 200	76,0
78,0	45,5	78,4	6 100	5 500		14 900	14 100	13 300	78,0
80,0	44,0	76,4	5 300			14 000	13 200	12 500	80,0
82,0	42,4	74,2				13 100	12 400	11 700	82,0
84,0	40,8	71,9				12 300	11 600	10 900	84,0
86,0	39,1	69,5				11 500	10 800	10 200	86,0
88,0	37,4	66,9				10 700	10 100	9 500	88,0
90,0	35,6	64,1				10 000	9 400	8 900	90,0
92,0	33,7	61,1				9 300	8 800	8 300	92,0
94,0	31,7	58,0				8 600	8 100	7 700	94,0
98,0	27,3	50,7				7 300	6 900	6 500	98,0
102,0	22,1	41,8				6 100	5 800	5 500	102,0

MLC300 VPC-MAX S-1



B60



135 100 kg



360°

			10,6 m		14,6 m			
m	°	m	kg	kg	kg	kg	m	m
13,7	84,4	115,5	58 600		58 600		13,7	
14,0	84,3	115,5	58 600		58 600		14,0	
16,0	83,2	115,3	58 600	36 100	58 600	36 100	16,0	
18,0	82,2	115,0	58 600	36 100	58 600	36 100	18,0	
20,0	81,2	114,7	58 600	36 100	58 600	36 100	20,0	
22,0	80,2	114,3	58 600	36 100	58 600	36 100	22,0	
24,0	79,2	113,9	58 600	36 100	58 600	36 100	24,0	
26,0	78,1	113,5	58 500	36 100	58 500	36 100	26,0	
28,0	77,1	113,1	58 500	36 100	58 500	36 100	28,0	
30,0	76,1	112,6	58 400	36 100	58 400	36 100	30,0	
32,0	75,0	112,0	54 800	36 100	58 200	36 100	32,0	
34,0	74,0	111,5	50 000	36 100	57 700	36 100	34,0	
36,0	72,9	110,8	45 600	36 100	56 900	36 100	36,0	
38,0	71,9	110,2	41 800	36 100	55 100	36 100	38,0	
40,0	70,8	109,5	38 400	35 200	51 100	36 100	40,0	
42,0	69,7	108,8	35 100	32 300	47 400	36 100	42,0	
44,0	68,7	108,0	32 200	29 600	44 100	36 100	44,0	
46,0	67,6	107,1	29 500	27 200	41 100	36 100	46,0	
48,0	66,5	106,3	27 100	25 000	38 300	35 400	48,0	
50,0	65,4	105,4	24 900	22 900	35 800	33 400	50,0	
52,0	64,3	104,4	22 800	21 000	33 500	31 300	52,0	
54,0	63,1	103,4	20 900	19 300	31 400	29 300	54,0	
56,0	62,0	102,3	19 100	17 600	29 400	27 500	56,0	
58,0	60,8	101,2	17 500	16 100	27 500	25 800	58,0	
60,0	59,7	100,0	16 000	14 700	25 900	24 200	60,0	
62,0	58,5	98,8	14 500	13 300	24 300	22 800	62,0	
64,0	57,3	97,5	13 200	12 100	22 800	21 400	64,0	
66,0	56,1	96,2	11 900	10 900	21 400	20 100	66,0	
68,0	54,9	94,8	10 700	9 800	20 100	18 900	68,0	
70,0	53,6	93,3	9 600	8 700	18 900	17 700	70,0	
72,0	52,4	91,8	8 600	7 700	17 700	16 700	72,0	
74,0	51,1	90,2	7 600	6 800	16 600	15 600	74,0	
76,0	49,8	88,5	6 600	5 900	15 600	14 700	76,0	
78,0	48,4	86,7	5 700	5 000	14 600	13 700	78,0	
80,0	47,0	84,9	4 900		13 700	12 900	80,0	
82,0	45,6	82,9			12 800	12 000	82,0	
84,0	44,2	80,9			12 000	11 200	84,0	
86,0	42,7	78,7			11 200	10 500	86,0	
88,0	41,2	76,5			10 400	9 800	88,0	
90,0	39,6	74,1			9 700	9 100	90,0	
92,0	38,0	71,5			9 000	8 400	92,0	
94,0	36,3	68,8			8 300	7 800	94,0	
98,0	32,7	62,9			7 100	6 600	98,0	
102,0	28,7	56,0			5 900	5 500	102,0	
106,0	24,1	47,8			4 800		106,0	

MLC300 VPC-MAX S-1



B60



135 100 kg



360°

 120,0 m					
			 10,6 m	 14,6 m	
 m	 °	 m	 kg	 kg	 m
13,7	84,7	121,6	51 400	51 400	13,7
14,0	84,5	121,5	51 400	51 400	14,0
16,0	83,6	121,3	51 400	51 400	16,0
18,0	82,6	121,0	51 400	51 400	18,0
20,0	81,7	120,8	51 400	51 400	20,0
22,0	80,7	120,4	51 400	51 400	22,0
24,0	79,7	120,1	51 400	51 400	24,0
26,0	78,7	119,7	51 300	51 300	26,0
28,0	77,8	119,2	51 300	51 300	28,0
30,0	76,8	118,8	51 200	51 200	30,0
32,0	75,8	118,2	51 100	51 100	32,0
34,0	74,8	117,7	49 200	50 800	34,0
36,0	73,8	117,1	44 900	50 300	36,0
38,0	72,8	116,5	40 900	49 900	38,0
40,0	71,8	115,8	37 300	48 800	40,0
42,0	70,8	115,2	34 100	46 500	42,0
44,0	69,8	114,4	31 100	43 300	44,0
46,0	68,8	113,6	28 500	40 300	46,0
48,0	67,7	112,8	26 000	37 500	48,0
50,0	66,7	112,0	23 800	35 000	50,0
52,0	65,6	111,1	21 700	32 700	52,0
54,0	64,6	110,1	19 800	30 600	54,0
56,0	63,5	109,1	18 100	28 600	56,0
58,0	62,4	108,1	16 400	26 800	58,0
60,0	61,4	107,0	14 900	25 100	60,0
62,0	60,3	105,8	13 400	23 500	62,0
64,0	59,1	104,6	12 100	22 000	64,0
66,0	58,0	103,4	10 800	20 600	66,0
68,0	56,9	102,1	9 700	19 300	68,0
70,0	55,7	100,7	8 500	18 100	70,0
72,0	54,6	99,3	7 500	16 900	72,0
74,0	53,4	97,8	6 500	15 800	74,0
76,0	52,2	96,3	5 500	14 800	76,0
78,0	50,9	94,7		13 800	78,0
80,0	49,7	93,0		12 900	80,0
82,0	48,4	91,2		12 000	82,0
84,0	47,1	89,3		11 200	84,0
86,0	45,8	87,4		10 400	86,0
88,0	44,4	85,4		9 600	88,0
90,0	43,0	83,3		8 900	90,0
92,0	41,6	81,0		8 200	92,0
94,0	40,1	78,7		7 500	94,0
98,0	37,0	73,5		6 300	98,0
102,0	33,7	67,8		5 100	102,0