Maximum Allowable Travel Specifications

Boom No. B65:505-500
with Mast No. M11:503
VPC-MAX at 14,6 m (48.0 ft) Position

MLC300 VPC-MAX

Jobsite Travel

MLC300 VPC-MAX SERIES 1 must be equipped with 135 100 kg (297,800 lb) VPC (Variable Position Counterweight); MLC300 VPC-MAX SERIES 2 must be equipped with 175 100 kg (386,000 lb) VPC; MLC300 VPC-MAX SERIES 3 must be equipped with 215 000 kg (474,100 lb) VPC. Refer to Wind Conditions chart for maximum wind speed for various boom lengths. Refer to capacity chart for maximum boom lengths lifted unassisted. Travel slowly and smoothly to avoid shock loading boom and rigging.

1. Machine Travel With Load

A. Machine can swing and travel with 360 degree rating.

B. Grade in any direction must not exceed 1 percent (0.5 degrees).

C. Travel surface must be firm, level and uniformly supporting. Capacity charts are based on static conditions; therefore judgment must be used to allow for dynamic effects of traveling with load. Carry load as close to ground as possible. Stabilize load with taglines.

2. Machine Travel Without Load

A. Load blocks, hooks, weight ball, slings, hoist lines, etc., may be suspended beneath boom points or tied off to machine. Total combined suspended weight beneath boom points must not exceed 10 000 kg (22,000 lb).

B. Machine to travel on a firm and uniformly supporting surface. Travel allowed with 360 degree swing up to 1 percent (0.5 degrees) grade; crane upperworks must be in-line with crawlers and grade when grade exceeds 1 percent (0.5 degrees). Side-to-side grade must not exceed 2 percent (1.1 degrees) measured at boom hinge pins.

C. Refer to Tables 2 thru 4 for boom angle, boom length, and direction for various grades. Adjust boom within boom angle range shown in table with machine in a level position before traveling onto grade. Do not change boom angle after crane has been traveled onto grade. Boom angle is angle between horizontal and centerline of boom butt and inserts. Refer to Table 1 for grade vs. angle when traveling.

D. Do not exceed 2 percent (1.1 degrees) side-to-side grade at boom hinge pins when cutting (turning on grade).

E. **Caution:** Change in grade must not exceed 3 percent (1.7 degrees) in 9.1 m (30 ft). *Damage could occur.*

F. ***Warning:*** Travel prohibited for boom angle range not shown in Tables 2 thru 4. *Crane could tip.*

G. ***Warning:*** 14,6 m (48.0 ft) counterweight position must be selected before traveling on grade greater than 1 percent (0.5 degrees). *Crane could tip.*

Table 1

Percent Grade Vs. Angle In Degrees	
Percent Grade	Angle
5	2.9
10	5.7

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MLC300
VPC-MAX

Table 2a: SERIES 1

MACHINE TRAVEL WITHOUT LOAD			
Boom Length		Boom Angle Range in Degrees	
		Maximum Percent Grade	
Meters	Feet	5%	10%
BOOM FACING DOWNHILL			
54,0	177.2	30 - 75	30 - 75
60,0	196.9	30 - 75	30 - 75
66,0	216.5	30 - 75	30 - 75
72,0	236.2	30 - 75	31 - 75
78,0	255.9	30 - 75	42 - 75
84,0	275.6	30 - 75	49 - 75
90,0	295.3	35 - 75	54 - 75
96,0	315.0	43 - 75	58 - 75
102,0	334.6	50 - 75	63 - 75
108,0	354.3	61 - 75	68 - 75
114,0	374.0	66 - 75	71 - 75
120,0	393.7	69 - 75	75 - 75

Table 2b: SERIES 1

MACHINE TRAVEL WITHOUT LOAD			
Boom Length		Boom Angle Range in Degrees	
		Maximum Percent Grade	
Meters	Feet	5%	10%
BOOM FACING UPHILL			
54,0	177.2	30 - 72	30 - 69
60,0	196.9	30 - 72	30 - 69
66,0	216.5	30 - 72	30 - 69
72,0	236.2	30 - 72	30 - 69
78,0	255.9	30 - 72	30 - 69
84,0	275.6	30 - 72	30 - 69
90,0	295.3	31 - 72	31 - 69
96,0	315.0	40 - 72	40 - 69
102,0	334.6	46 - 72	46 - 69
108,0	354.3	52 - 72	52 - 69
114,0	374.0	54 - 72	54 - 69
120,0	393.7	64 - 72	64 - 69

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

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MLC300 VPC-MAX

Boom No. B65:505-500
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VPC-MAX at 14,6 m (48.0 ft) Position

Table 3a: SERIES 2

MACHINE TRAVEL WITHOUT LOAD			
Boom Length		Boom Angle Range in Degrees	
		Maximum Percent Grade	
Meters	Feet	5%	10%
BOOM FACING DOWNHILL			
54,0	177.2	30 - 75	30 - 75
60,0	196.9	30 - 75	30 - 75
66,0	216.5	30 - 75	30 - 75
72,0	236.2	30 - 75	30 - 75
78,0	255.9	30 - 75	30 - 75
84,0	275.6	30 - 75	30 - 75
90,0	295.3	30 - 75	30 - 75
96,0	315.0	30 - 75	32 - 75
102,0	334.6	36 - 75	39 - 75
108,0	354.3	44 - 75	46 - 75
114,0	374.0	49 - 75	61 - 75
120,0	393.7	55 - 75	66 - 75
126,0	413.4	63 - 75	69 - 75

Table 3b: SERIES 2

MACHINE TRAVEL WITHOUT LOAD			
Boom Length		Boom Angle Range in Degrees	
		Maximum Percent Grade	
Meters	Feet	5%	10%
BOOM FACING UPHILL			
54,0	177.2	30 - 71	30 - 64
60,0	196.9	30 - 72	30 - 68
66,0	216.5	30 - 72	30 - 69
72,0	236.2	30 - 72	30 - 69
78,0	255.9	30 - 72	30 - 69
84,0	275.6	30 - 72	30 - 69
90,0	295.3	30 - 72	30 - 69
96,0	315.0	30 - 72	30 - 69
102,0	334.6	33 - 72	33 - 69
108,0	354.3	40 - 72	40 - 69
114,0	374.0	46 - 72	46 - 69
120,0	393.7	52 - 72	52 - 69
126,0	413.4	58 - 72	58 - 69

Maximum Allowable Travel Specifications

Boom No. B65:505-500
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MLC300 VPC-MAX

Table 4a: SERIES 3

MACHINE TRAVEL WITHOUT LOAD			
Boom Length		Boom Angle Range in Degrees	
		Maximum Percent Grade	
Meters	Feet	5%	10%
BOOM FACING DOWNHILL			
54,0	177.2	30 - 75	30 - 75
60,0	196.9	30 - 75	30 - 75
66,0	216.5	30 - 75	30 - 75
72,0	236.2	30 - 75	30 - 75
78,0	255.9	30 - 75	30 - 75
84,0	275.6	30 - 75	30 - 75
90,0	295.3	30 - 75	30 - 75
96,0	315.0	30 - 75	30 - 75
102,0	334.6	30 - 75	30 - 75
108,0	354.3	32 - 75	33 - 75
114,0	374.0	48 - 75	50 - 75
120,0	393.7	55 - 75	57 - 75
126,0	413.4	60 - 75	63 - 75

Table 4b: SERIES 3

MACHINE TRAVEL WITHOUT LOAD			
Boom Length		Boom Angle Range in Degrees	
		Maximum Percent Grade	
Meters	Feet	5%	10%
BOOM FACING UPHILL			
54,0	177.2	30 - 67	30 - 58
60,0	196.9	30 - 70	30 - 63
66,0	216.5	30 - 72	30 - 67
72,0	236.2	30 - 72	30 - 69
78,0	255.9	30 - 72	30 - 69
84,0	275.6	30 - 72	30 - 69
90,0	295.3	30 - 72	30 - 69
96,0	315.0	30 - 72	30 - 69
102,0	334.6	30 - 72	30 - 69
108,0	354.3	30 - 72	30 - 69
114,0	374.0	46 - 72	46 - 69
120,0	393.7	52 - 72	52 - 69
126,0	413.4	58 - 72	58 - 69

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