

Maximum Allowable Travel Specifications

MLC165-1

Boom No. 74A Jib No. 134 with 3 810 mm (12 ft 6 in.) Strut

Jobsite Travel

MLC165-1 SERIES 1 must be equipped with 46 000 kg (101,400 lb) crane counterweight and 0 kg (0 lb) carbody counterweight; MLC165-1 SERIES 2 must be equipped with 56 000 kg (123,400 lb) crane counterweight and 20 450 kg (45,100 lb) carbody counterweight. Refer to Wind Conditions chart for maximum wind speed for various boom and jib lengths and capacity charts for maximum boom and jib lengths lifted unassisted.

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. Travel slowly and smoothly to avoid shock loading boom and rigging.

2. Machine Travel Without Load

- A. Load blocks and/or hook and weight balls may be suspended beneath lower and upper boom point, jib point, or tied off to machine. Total combined suspended weight beneath lower and upper boom points must not exceed 4 400 kg (9,700 lb). Total suspended weight beneath jib point must not exceed 910 kg (2,000 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. Grade in direction of travel should not exceed 30 percent (16.7 degrees); side-to-side grade must not exceed 2 percent (1.1 degrees) measured at boom hinge pins.
- C. Refer to Tables 1 thru 4 for boom angle and boom length 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 below 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. Boom lengths shown in Tables 1 and 2 do not include jib. Boom lengths shown in Tables 3 and 4 include all jib lengths and offset angles.
- F. Warning: Travel prohibited for boom angle range not shown in tables 1 and 2. Crane could tip.

Percent Grade Vs. Angle In Degrees					
Percent Grade	Angle				
5	2.9				
10	5.7				
15	8.5				
20	11.3				
25	14.0				
30	16.7				

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Boom No. 74A

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Table 1: Boom No. 74A, SERIES 1

MACHINE TRAVEL WITHOUT LOAD							
Boom	Boom Length Boom Angle Range in Degrees						
(not inclu	uding jib)	Percent Grade					
Meters	Feet	1 - 5%	6 - 10%	11 - 15%	16 - 20%	21 - 25%	26 - 30%
		ВООМ	FACING DO	WNHILL OR	UPHILL		
15,0	49.2	31 - 56	31 - 43	_	_	3	_
18,0	59.1	34 - 62	34 - 53	34 - 42	<	_	_
21,0	68.9	31 - 66	31 - 59	31 - 50	31 - 38	//	_
24,0	78.7	30 - 71	30 - 63	30 - 56	30 - 47	30 - 41	_
27,0	88.6	30 - 72	30 - 66	30 - 56	30 - 52	30 - 43	30 - 38
30,0	98.4	30 - 72	30 - 69	30 - 60	30 - 57	30 - 49	30 - 41
33,0	108.3	30 - 72	30 - 69	35 - 63	30 - 57	35 - 54	40 - 47
36,0	118.1	30 - 72	30 - 69	33 - 65	35 - 60	38 - 54	45 - 51
39,0	128.0	30 - 72	32 - 69	36 - 66	33 - 62	47 - 57	_
42,0	137.8	35 - 72	38 - 69	45 - 66	43 - 63	56 - 60	_
45,0	147.6	37 - 72	43 - 69	49 - 66	50 - 63	58 - 60	_
48,0	157.5	44 - 72	49 - 69	52 - 66	54 - 63	_	_
51,0	167.3	48 - 72	52 - 69	56 - 66	58 - 63	_	_
54,0	177.2	53 - 72	57 - 69	61 - 66	61 - 63	_	_
57,0	187.0	55 - 72	59 - 69	64 - 66	_	_	_
60,0	196.9	59 - 72	62 - 69	65 - 66	_	_	_
63,0	206.7	60 - 72	64 - 69	_	_	_	_
66,0	216.5	62 - 72	66 - 69	_	_	_	_
69,0	226.4	65 - 72	68 - 69	_	_	_	_
72,0	236.2	66 - 72					



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Table 2: Boom No. 74A, SERIES 2

MACHINE TRAVEL WITHOUT LOAD									
Boom	Boom Length Boom Angle Range in Degrees								
(not incl	uding jib)		Percent Grade						
Meters	Feet	1 - 5%	6 - 10%	11 - 15%	16 - 20%	21 - 25%	26 - 30%		
	BOOM FACING DOWNHILL OR UPHILL								
15,0	49.2	31 - 64	31 - 50	_		4-	_		
18,0	59.1	34 - 68	34 - 57	34 - 45	_	_	_		
21,0	68.9	31 - 72	31 - 62	31 - 52	31 - 38	_	_		
24,0	78.7	30 - 72	30 - 66	30 - 58	30 - 47	30 - 35	_		
27,0	88.6	30 - 72	30 - 69	30 - 62	30 - 52	30 - 43	30 - 33		
30,0	98.4	30 - 72	30 - 69	30 - 65	30 - 57	30 - 49	30 - 41		
33,0	108.3	30 - 72	30 - 69	35 - 66	35 - 60	35 - 50	35 - 47		
36,0	118.1	30 - 72	30 - 69	33 - 66	33 - 60	33 - 54	33 - 48		
39,0	128.0	30 - 72	30 - 69	32 - 66	32 - 62	32 - 57	36 - 52		
42,0	137.8	30 - 72	30 - 69	31 - 66	31 - 63	38 - 60	42 -55		
45,0	147.6	30 - 72	30 - 69	30 - 66	33 - 63	40 - 60	49 - 55		
48,0	157.5	30 - 72	32 - 69	35 - 66	44 - 63	49 - 60	54 - 58		
51,0	167.3	31 - 72	37 - 69	43 - 66	50 - 63	54 - 60	_		
54,0	177.2	39 - 72	44 - 69	48 - 66	55 - 63	59 - 60	_		
57,0	187.0	43 - 72	49 - 69	53 - 66	59 - 63	_	_		
60,0	196.9	48 - 72	52 - 69	57 - 66	62 - 63	_	_		
63,0	206.7	52 - 72	55 - 69	60 - 66	_	_	_		
66,0	216.5	54 - 72	59 - 69	63 - 66	_	_			
69,0	226.4	57 - 72	60 - 69	65 - 66	_	_	_		
72,0	236.2	59 - 72	63 - 69	_	_	_	_		
75,0	246.1	62 - 72	66 - 69	_	_	_	_		
78,0	255.9	63 - 72	67 - 69	_	_	_	_		
81,0	265.7	65 - 72	_	_	_	_	_		
84,0	275.6	66 - 72	_	_	_	_	_		



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Table 3: Boom No. 74A with Jib No. 134, SERIES 1

	MACHINE TRAVEL WITHOUT LOAD							
	Length		Boom Angle Range in Degrees					
,	ng all jib nd offsets)	Percent Grade						
Meters	Feet	1 - 5%	6 - 10%	11 - 15%	16 - 20%	21 - 25%		
	BOOM FACING DOWNHILL OR UPHILL							
27,0	88.6	46 - 72	46 - 66	46 - 66	46 - 59	46 - 53		
30,0	98.4	47 - 72	47 - 69	47 - 66	49 - 62	54 - 56		
33,0	108.3	45 - 72	45 - 69	49 - 66	54 - 63	_		
36,0	118.1	46 - 72	50 - 69	55 - 66	59 - 63	_		
39,0	128.0	51 - 72	55 - 69	59 - 66	62 - 63	_		
42,0	137.8	54 - 72	59 - 69	62 - 66	_	_		
45,0	147.6	56 - 72	61 - 69	64 - 66	_	_		
48,0	157.5	59 - 72	64 - 69) <u> </u>	_	_		
51,0	167.3	62 - 72	66 - 69	_	_	_		
54,0	177.2	65 - 72	67 - 69		_	_		
57,0	187.0	66 - 72		_	_	_		
60,0	196.9	66 - 72	(/		_	_		
63,0	206.7	67 - 72	V -	_	_			



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Table 4: Boom No. 74A with Jib No. 134, SERIES 2

MACHINE TRAVEL WITHOUT LOAD							
Boom Length Boom Angle Range in Degrees							
	ng all jib nd offsets)	Percent Grade					
Meters	Feet	1 - 5%	6 - 10%	11 - 15%	16 - 20%	21 - 25%	26 - 30%
		ВООМ	FACING DO	WNHILL OR	UPHILL		
27,0	88.6	46 - 72	46 - 69	46 - 66	46 - 59	46 - 52	_
30,0	98.4	47 - 72	47 - 69	47 - 66	47 - 62	47 - 55	47 - 49
33,0	108.3	45 - 72	45 - 69	45 - 66	45 - 63	45 - 57	49 - 52
36,0	118.1	46 - 72	46 - 69	46 - 66	46 - 63	50 - 60	_
39,0	128.0	45 - 72	45 - 69	46 - 66	51 - 63	57 - 60	_
42,0	137.8	46 - 72	47 - 69	51 - 66	57 - 63	_	_
45,0	147.6	47 - 72	50 - 69	54 - 66	59 - 63	_	_
48,0	157.5	49 - 72	54 - 69	59 - 66	62 - 63	_	_
51,0	167.3	53 - 72	57 - 69	62 - 66	_	_	_
54,0	177.2	56 - 72	60 - 69	65 - 66	_	_	_
57,0	187.0	59 - 72	62 - 69	_	_	_	_
60,0	196.9	60 - 72	64 - 69	_	_	_	_
63,0	206.7	63 - 72	67 - 69	_	_	_	_
66,0	216.5	65 - 72	_	_	_	_	_
69,0	226.4	66 - 72		_			
72,0	236.2	67 - 72	_	_	_	_	_
75,0	246.1	67 - 72	_	_	_	_	_