

Maximum Allowable Travel Specifications

MLC150-1

Clamshell/Grapple
Boom No. B10:350

Jobsite Travel

MLC150-1 SERIES 0 must be equipped with 26 090 kg (57,500 lb) crane counterweight and 0 kg (0 lb) carbody counterweight. Refer to Wind Conditions chart for maximum wind speed for various boom lengths. Refer to capacity charts for maximum boom lengths lifted unassisted. Travel slowly and smoothly to avoid shock loading boom and rigging. **Warning: Maintain adequate clearance between boom and load blocks, bucket, hooks, or weight ball while traveling.** *The boom can buckle and collapse if load blocks, hooks or weight ball contact the boom.*

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, bucket, 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 3 850 kg (8,500 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. Side-to-side grade must not exceed 2 percent (1.1 degrees) measured at boom hinge pins.
- C. Refer to Table 2 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 adjust 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. **Warning:** Travel prohibited for boom angle range not shown in Table 2. *Crane could tip.*

Table 1

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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Table 2a: SERIES 0

MACHINE TRAVEL WITHOUT LOAD							
Boom Length		Boom Angle Range in Degrees					
		Maximum Percent Grade					
Meters	Feet	5%	10%	15%	20%	25%	30%
BOOM FACING DOWNHILL							
15,0	49.2	36 - 65	36 - 65	39 - 65	42 - 65	45 - 65	47 - 65
18,0	59.1	38 - 65	39 - 65	41 - 65	42 - 65	45 - 65	47 - 65
21,0	68.9	35 - 65	36 - 65	39 - 65	42 - 65	45 - 65	47 - 65
24,0	78.7	39 - 65	40 - 65	42 - 65	43 - 65	45 - 65	47 - 65
27,0	88.6	36 - 65	38 - 65	40 - 65	42 - 65	45 - 65	47 - 65
30,0	98.4	35 - 65	36 - 65	39 - 65	42 - 65	45 - 65	47 - 65
33,0	108.3	42 - 65	44 - 65	45 - 65	48 - 65	52 - 65	55 - 65
36,0	118.1	51 - 65	53 - 65	56 - 65	58 - 65	61 - 65	—
39,0	128.0	55 - 65	58 - 65	60 - 65	63 - 65	—	—

Table 2b: SERIES 0

MACHINE TRAVEL WITHOUT LOAD							
Boom Length		Boom Angle Range in Degrees					
		Maximum Percent Grade					
Meters	Feet	5%	10%	15%	20%	25%	30%
BOOM FACING UPHILL							
15,0	49.2	32 - 62	32 - 59	32 - 56	32 - 53	32 - 50	32 - 48
18,0	59.1	34 - 62	34 - 59	34 - 56	34 - 53	34 - 50	34 - 48
21,0	68.9	31 - 62	31 - 59	31 - 56	31 - 53	31 - 50	31 - 48
24,0	78.7	36 - 62	36 - 59	36 - 56	36 - 53	36 - 50	36 - 48
27,0	88.6	34 - 62	34 - 59	34 - 56	34 - 53	34 - 50	34 - 48
30,0	98.4	32 - 62	32 - 59	32 - 56	32 - 53	32 - 50	32 - 48
33,0	108.3	40 - 62	40 - 59	40 - 56	40 - 53	40 - 50	40 - 48
36,0	118.1	49 - 62	49 - 59	49 - 56	49 - 53	—	—
39,0	128.0	53 - 62	53 - 59	53 - 56	—	—	—