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

Maximum Allowable Travel Specifications

222 SERIES B
222EX SERIES B

Boom No. 260
Luffing Jib No. 222
Fixed Jib No. 10

REFERENCE ONLY!

A. Jobsite Travel

1. MACHINE TRAVEL WITH LOAD

   a. Machine to travel on firm, level, and uniformly supporting surface with boom and luffing jib within angle range shown in capacity chart. Grade in any direction must not exceed 1/2 percent (0.25 degrees).

   b. 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, luffing jib, fixed jib and rigging.

   c. Refer to operators manual for maximum wind speed for various boom and luffing jib combinations.

2. MACHINE TRAVEL WITHOUT LOAD

   a. See tables on page 2 for boom and luffing jib settings.

   b. Machine to travel on a firm and uniformly supporting surface. Grade in direction of travel should not exceed 5 percent (2.9 degrees). See table below for grade vs. angle and boom angle setting. When traveling on **uphill grade, lower boom** the corresponding degrees for grade to be traveled. When traveling on **downhill grade, raise boom** the corresponding degrees for grade to be traveled. Side to side grade must not exceed 1 percent (0.5 degrees).

   c. Load block and/or hook and weight ball may be suspended below luffing jib point and fixed jib point. Total suspended weight beneath luffing jib point must not exceed 2,000 Lbs. (910 kg). Total suspended weight beneath fixed jib point must not exceed 750 Lbs. (340 kg).

   d. Travel with crane upperworks in-line with crawlers and travel motors to rear. Maintain 1 percent grade (0.5 degrees) at boom hinge pins when cutting (steering on grade). Return to in-line position for continuation of travel.

   e. Refer to operators manual for maximum wind speed for various boom and luffing jib combinations.

   f. ***Warning:*** Travel prohibited for lengths not shown in tables on page 2. *Crane could tip*.

Percent Grade Vs. Angle In Degrees and Boom Angle Setting			
Percent Grade	Angle	Uphill Boom Angle	Downhill Boom Angle
1	0.5°	82.5°	83.5°
3	1.7°	81.3°	84.7°
5	2.9°	80.1°	85.9°

Maximum Allowable Travel Specifications

222 SERIES B
222EX SERIES B

Boom No. 260
Luffing Jib No. 222
Fixed Jib No. 10

Machine Travel Without Load Boom Facing Uphill or Downhill					
83 Degree Boom Angle (± 1 degree) 40 - 50 Degree Luffing Jib Angle					
0 - 5% Grade					
Boom Length		Luffing Jib Length		Fixed Jib Length	
Feet	Meters	Feet	Meters	Feet	Meters
115	35.1	100 - 130	30.5 - 39.6	30	9.1
115	35.1	100 - 120	30.5 - 36.6	40	12.2
115	35.1	100 - 120	30.5 - 36.6	50	15.2
115	35.1	100 - 110	30.5 - 33.5	60	18.3
125	38.1	100 - 120	30.5 - 36.6	30	9.1
125	38.1	100 - 120	30.5 - 36.6	40	12.2
125	38.1	100 - 110	30.5 - 33.5	50	15.2
125	38.1	100 - 110	30.5 - 33.5	60	18.3
135	41.1	100	30.5	30	9.1
135	41.1	100	30.5	40	12.2
135	41.1	100	30.5	50	15.2
135	41.1	100	30.5	60	18.3

Machine Travel Without Load Boom Facing Downhill ONLY					
83 Degree Boom Angle (± 1 degree) 40 - 50 Degree Luffing Jib Angle					
0 - 5% Grade					
Boom Length		Luffing Jib Length		Fixed Jib Length	
Feet	Meters	Feet	Meters	Feet	Meters
115	35.1	130	39.6	40	12.2
115	35.1	120	36.6	60	18.3
125	38.1	130	39.6	30	9.1
125	38.1	130	39.6	40	12.2
125	38.1	120	36.6	50	15.2
125	38.1	120	36.6	60	18.3

Boom Facing Uphill Not Allowed

Machine Travel Without Load Boom Facing Uphill ONLY					
88 Degree Boom Angle (+ 0 degree; - 1/2 degree) 40 - 50 Degree Luffing Jib Angle					
0 - 1% Grade					
Boom Length		Luffing Jib Length		Fixed Jib Length	
Feet	Meters	Feet	Meters	Feet	Meters
115	35.1	130	39.6	50	15.2
115	35.1	130	39.6	60	18.3
125	38.1	130	39.6	50	15.2
125	38.1	130	39.6	60	18.3

Boom Facing Downhill Not Allowed

REFERENCE ONLY!