MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220

_ Wention of

LIFTCRANE BOOM CAPACITIES

. M-1200

BOOM NO. 72 OR NO. 72A WITH 882 TON BOOM POINT MAST NO. 75 OR NO. 75A
60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS
52,000 LB. CRANE COUNTERWEIGHT
1,797,600 LB. AUXILIARY COUNTERWEIGHT
360 DEGREE RATING

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH 6 PART LINE IS 180,000 LBS. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY. UPPER BOOM POINT MINIMUM OPERATING RADII WILL BE RESTRICTED WITH BOOM AT MAXIMUM ANGLE.

WEIGHT OF ALL LOAD BLOCKS, HOOKS, SLINGS, HOIST LINES, ETC., BENEATH MAIN BOOM AND UPPER BOOM POINT SHEAVES, IS CONSIDERED PART OF MAIN BOOM 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.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH ROLLER PATH LEVEL WITHIN A TOLERANCE OF 1-1/4" IN 60' AND PROPERLY SUPPORTED. REFER TO BOOM RIGGING NO. 173399, NO. 175673 OR NO. 175955 AND WIRE ROPE SPECIFICATION CHART NO. 7683-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.

MACHINE MAY BE OPERATED IN WINDS UP TO 35 MPH PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A LOAD WITH A LARGE 'SAIL AREA' AND MUST BE COMPENSATED FOR ACCORDINGLY BY REDUCING LOAD RATINGS, REDUCING OPERATION SPEEDS OR BY A COMBINATION OF BOTH. RECOMMEND STOPPING OPERATION AND LOWERING BOOM TO APPROXIMATELY 75 DEGREE BOOM ANGLE WHEN WIND EXCEEDS 35 MPH. LOWER BOOM TO GROUND WHEN WIND IS ABOVE 50 MPH.

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION TO CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE 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 IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 60' RINGER ATTACHMENT, 30'9" CRAWLERS, 48" TREADS, 28' RETRACTABLE GANTRY, 150' NO. 75 MAST WITH 32 PART BOOM HOIST REEVING OR NO. 75A MAST WITH 36 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, 52,000 LB. CRANE COUNTERWEIGHT AND 1,797,600 LB. AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM LENGTH LIFTED UNASSISTED = 253

LOAD BLOCKS ON GROUND AT START.

UPPER BOOM POINT CANNOT BE USED ON BOOM NO. 72.

CONSULT JIB CHART FOR JIB CAPACITIES. JIB AND JIB BACKSTAYS MUST BE REMOVED FOR USE OF THIS CHART.

WARNING: CHECK AMOUNT OF AUXILIARY COUNTERWEIGHT ON MACHINE BEFORE USE OF THIS CHART.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACI TY POUNDS
1 5	56 58 60 65 70 75 80 85 90 95	82. 0 81. 2 80. 5 78. 5 76. 6 74. 7 72. 7 70. 7 68. 6 66. 6	158. 8 157. 2 155. 5 153. 6 151. 5	1, 764, 000* 1, 764, 000* 1, 764, 000* 1, 764, 000* 1, 764, 000* 1, 764, 000* 1, 623, 700 1, 473, 600 1, 347, 500 1, 240, 000
3	100 105 110 115 120 125 130	64. 5 62. 3 60. 2 57. 9 55. 6 53. 2 50. 8	146. 7 143. 9 140. 8 137. 5	1, 147, 300 1, 066, 500 995, 500 932, 600 876, 400 826, 000 780, 500

BOOM LGTH. FEET 1 5	OPER. RAD. FEET 135 140 145 150 155	BOOM ANG. DEG. 48. 2 45. 5 42. 7 39. 7 36. 5	POI NT ELEV. FEET 121. 1 116. 0 110. 4 104. 1 97. 1 89. 2	BOOM CAPACI TY POUNDS 739, 200 701, 500 667, 000 635, 400 606, 100 579, 100
3	165	29. 1	80. 0	553, 900
1 7	65 70 75 80 85	80. 2 78. 5 76. 9 75. 2 73. 5	185. 7 184. 6 183. 3 181. 8 180. 2	1, 764, 000* 1, 764, 000* 1, 764, 000* 1, 615, 500 1, 465, 300
8	90 95 100 105	70. 1	178. 5 176. 5 174. 4 172. 1	1, 339, 100 1, 231, 600 1, 138, 800 1, 058, 000

DOOM

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACI TY POUNDS
	110 115 120 125 130	62. 9 61. 1 59. 2 57. 2	157. 5	987, 000 924, 100 867, 900 817, 500 772, 000
1 7	135 140 145 150 155	53. 2 51. 1 48. 9	153. 9 150. 0 145. 8 141. 3 136. 4	730, 700 693, 000 658, 600 626, 900 597, 700
8	160 165 170 175 180 185	41. 9 39. 3 36. 6 33. 6	112. 2 104. 4	570, 800 545, 700 522, 400 500, 600 480, 300 461, 200

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BOOM NO. 72 OR NO. 72A WITH 882 TON BOOM POINT MAST NO. 75 OR NO. 75A 60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS 52,000 LB. CRANE COUNTERWEIGHT 1,797,600 LB. AUXILIARY COUNTERWEIGHT 360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACI TY POUNDS
2 0 3	FEET 65 70 75 80 85 90 105 110 115 120 125 130 135 140 145 150 160 165 170 175 180 185 190 195 200 205 210	DEG. 81. 4 80. 0 78. 5 77. 1 75. 6 74. 1 72. 6 68. 1 66. 5 65. 0 63. 4 56. 0 55. 2 51. 4 49. 5 47. 5 4	211. 2 210. 2 209. 1 207. 8 206. 4 204. 9 203. 2 201. 4 199. 6 189. 9 187. 1 184. 1 180. 9 177. 5 173. 9 170. 0 165. 9 161. 5 156. 8 151. 7 146. 3 140. 4 134. 1	1, 764, 000* 1, 764, 000* 1, 764, 000* 1, 609, 400 1, 459, 200 1, 332, 900 1, 225, 300 1, 132, 600 1, 051, 700 980, 700 917, 700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 2 8	70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 165 170 175 180 185 190 195 200 205 210 215 220 225 230	81.1 79.8 78.5 77.2 74.6 73.3 72.0 70.6 69.3 67.9 66.5 65.1 63.7 62.3 60.8 59.4 57.9 56.3 54.8 53.2 44.6 44.6 44.6 44.8 38.8 36.6 34.4 029.4	235. 7 234. 7 233. 6 232. 3 231. 0 229. 5 227. 9 226. 2 224. 3 220. 2 217. 9 215. 5 212. 9 210. 2 207. 3 204. 2 207. 3 193. 9 195. 0 185. 9 177. 0 172. 1 166. 9 149. 0 142. 2 134. 7 126. 6 117. 5	1, 764, 000* 1, 764, 000* 1, 764, 000* 1, 600, 600 1, 450, 300 1, 216, 400 1, 123, 600 1, 042, 700 971, 600 908, 600 852, 400 802, 000 756, 400 715, 100 677, 500 643, 000 611, 400 582, 200 530, 200 506, 900 485, 200 446, 900 445, 900 441, 300 395, 500 380, 500 366, 400 352, 500 339, 200 326, 500 314, 400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACI TY POUNDS
2 5 3	70 75 80 85 90 95 100 105 110 115 120 125 130 145 150 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255	82. 0 80. 8 79. 7 78. 5 77. 3 76. 2 75. 0 71. 4 70. 2 69. 0 66. 5 65. 3 64. 0 62. 7 66. 1 58. 8 57. 4 60. 1 58. 2 51. 7 50. 2 42. 2 45. 6 43. 9 42. 2 45. 6 36. 5 30. 2 27. 8	261. 0 260. 2 259. 2 258. 1 256. 9 255. 5 254. 1 247. 3 245. 3 245. 3 243. 1 240. 8 238. 5 235. 9 233. 2 230. 4 227. 4 224. 3 221. 0 206. 0 201. 7 192. 4 182. 1 176. 4 170. 4 164. 0 157. 2 149. 8 133. 1 123. 5	1, 764, 000* 1, 764, 000* 1, 764, 000* 1, 591, 900 1, 441, 500 1, 315, 100 1, 207, 400 1, 114, 500 1, 33, 600 962, 500 899, 500 843, 200 792, 800 747, 200 705, 900 668, 200 633, 800 602, 100 572, 900 545, 900 572, 900 497, 600 475, 900 497, 600 475, 900 497, 600 475, 900 386, 200 3371, 200 336, 200 3371, 200 3371, 200 336, 200 294, 700 283, 700 273, 200 263, 200 253, 500