

MANITOWOC ENGINEERING CO.

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



MAXIMUM ALLOWABLE TRAVELING SPECIFICATIONS **M-250T**

BOOM NO. 44A WITH HEAVY LIFT TOP AND FIXED JIB NO. 132
MANITOWOC 16 X 8 CARRIER WITH 130 PSI (896 kPa) RIMS

ALLOWABLE RATINGS ARE BASED ON MANUFACTURER'S PERMISSIBLE RATINGS FOR AXLES, TIRES, 130 PSI (896 kPa) RIMS, AND OTHER COMPONENTS AND SHOULD NOT BE EXCEEDED FOR THE SPEEDS AND THE PRESSURES SHOWN.

MANITOWOC 16 X 8 CARRIER - 390" (9 906 mm) WHEELBASE EQUIPPED WITH 5 AXLE GROUP IN FRONT AND 3 AXLE GROUP IN REAR.

CREEP SPEED = 1.2 MPH (2 kms/hr).

MAXIMUM ALLOWABLE TRAVELING WEIGHT									
TRAVEL SPEED - MPH	STATIC	1.2	2.5	5	10	20	30	40	50
TRAVEL SPEED - kms/hr	STATIC	2	4	8	16	30	50	65	80
FRONT AXLE GROUP - LBS.	357,200	297,000	259,000	229,300	185,200	158,700	144,400	131,200	100,300
FRONT AXLE GROUP - kg	162 020	134 720	117 480	104 010	84 010	71 990	65 500	59 510	45 500
REAR AXLE GROUP - LBS.	214,300	178,200	155,400	137,500	111,100	95,200	86,600	78,700	60,100
REAR AXLE GROUP - kg	97 200	80 830	70 490	62 370	50 390	43 180	39 280	35 700	27 260
GROSS VEHICLE WT. - LBS.	571,500	475,200	414,400	366,800	296,300	253,900	231,000	209,900	160,400
GROSS VEHICLE WT. - kg	259 230	215 550	187 970	166 380	134 400	115 170	104 780	95 210	72 760
TIRE PRESSURE - PSI	130	130	130	130	130	130	130	130	130
TIRE PRESSURE - kPa	896	896	896	896	896	896	896	896	896
MICHELIN XVC 14.00 R 25 (385/95 R 25) 32 P.R. 170 E LOAD INDEX AND SPEED SYMBOL.									

REFER TO WEIGHT DISTRIBUTION CHART NO. 7634-A AND MAXIMUM ALLOWABLE TRAVELING WEIGHT TABLE SHOWN ABOVE FOR AXLE GROUP LOADINGS WHEN EQUIPPED WITH VARIOUS COMPONENTS.

JIB LENGTHS SHOWN IN TABLE ON PAGE 2 INCLUDES ALL OFFSETS.

LOAD BLOCK SUSPENDED BELOW MAIN BOOM POINT AND HOOK AND WEIGHT BALL SUSPENDED BELOW UPPER BOOM POINT OR JIB POINT FOR JOBSITE MOVES.

MACHINE TO TRAVEL WITHOUT LOAD ON A FIRM AND UNIFORMLY SUPPORTING SURFACE. THE GRADE IN THE DIRECTION OF TRAVEL SHOULD NOT EXCEED 5 PERCENT (3 DEGREES); SIDE-TO-SIDE GRADE MUST NOT EXCEED 1 PERCENT (.5 DEGREES).

TRAVEL WITH FULLY RIGGED BOOM/JIB AND 123,200 LB. (55 880 kg) COUNTERWEIGHT ATTACHED IS LIMITED TO CREEP SPEED ONLY. RECOMMEND MOVEMENT WITH OUTRIGGERS SPREAD AND JACKS SET CLOSE TO GROUND TO PREVENT TIPPING. SEE MACHINE TRAVEL TABLES ON PAGE 2.

TRAVEL WITH NO BOOM ATTACHED (LOWER BUTT SECTION ONLY ATTACHED) IS LIMITED TO CREEP WITH UPPER FACING REAR ONLY AND MAXIMUM OF 123,200 LB. (55 880 kg) COUNTERWEIGHT ATTACHED. TRAVEL WITH COUNTERWEIGHT GREATER THAN 123,200 LBS. (55 880 kg) NOT ALLOWED.

REFER TO OPERATOR'S MANUAL FOR VARIOUS HYDRAULIC SUSPENSION MODES WHEN TRAVELING.

NOTE: UPPERWORKS MUST ALWAYS BE FACING REAR WHEN ON RUBBER AND COUNTERWEIGHTS ARE ATTACHED. DO NOT ROTATE UPPERWORKS OVER SIDE WITH COUNTERWEIGHTS ATTACHED UNLESS OUTRIGGERS ARE SPREAD AND SET.

MAXIMUM ALLOWABLE TRAVELING SPECIFICATIONS

M-250T
**BOOM NO. 44A WITH HEAVY LIFT TOP AND FIXED JIB NO. 132
MANITOWOC 16 X 8 CARRIER WITH 130 PSI (896 kPa) RIMS**

MACHINE TRAVEL WITHOUT LOAD - BOOM ONLY - JOBSITE MOVES AT 1.2 MPH (2 km/hr) CREEP 123,200 LB. (55 880 kg) CRANE COUNTERWEIGHT - GANTRY UP WITH PENDANTS ATTACHED TO BOOM TOP													
BOOM LENGTH		UPPER FACING REAR BOOM ANGLE RANGE IN DEGREES PERCENT GRADE						UPPER FACING FRONT BOOM ANGLE RANGE IN DEGREES PERCENT GRADE					
		DOWN 5%		LEVEL 0%		UP 5%		DOWN 5%		LEVEL 0%		UP 5%	
		RECOMMENDED		RECOMMENDED		RECOMMENDED		RECOMMENDED		RECOMMENDED		RECOMMENDED	
FEET	METERS	RANGE	ANGLE	RANGE	ANGLE	RANGE	ANGLE	RANGE	ANGLE	RANGE	ANGLE	RANGE	ANGLE
70	21.3	28 - 77	58	42 - 80	62	52 - 80	66	---	---	---	---	---	---
80	24.4	44 - 77	64	54 - 80	68	62 - 80	72	---	---	---	---	---	---
90	27.4	52 - 77	66	60 - 80	70	68 - 80	74	---	---	---	---	---	---
100	30.5	58 - 77	68	66 - 80	72	72 - 80	76	---	---	---	---	---	---
110	33.5	64 - 77	72	70 - 80	76	76 - 80	78	---	---	---	---	---	---
120	36.6	68 - 77	74	74 - 80	78	---	---	---	---	---	---	---	---
130	39.6	70 - 77	76	76 - 80	78	---	---	5 - 28	10	5 - 20	10	5 - 10	6
140	42.7	---	---	---	---	---	---	5 - 38	12	5 - 30	12	5 - 24	8
150	45.7	---	---	---	---	---	---	5 - 42	14	5 - 36	14	5 - 30	10
160	48.8	---	---	---	---	---	---	14 - 48	24	5 - 42	20	5 - 36	16
170	51.8	---	---	---	---	---	---	30 - 52	42	22 - 46	38	12 - 42	34
180	54.9	---	---	---	---	---	---	40 - 54	46	34 - 50	42	26 - 44	38
190	57.9	---	---	---	---	---	---	46 - 58	52	40 - 52	48	34 - 48	44
200	61.0	---	---	---	---	---	---	52 - 60	56	46 - 56	52	42 - 50	48
210	64.0	---	---	---	---	---	---	54 - 62	58	50 - 58	56	44 - 52	52
220	67.1	---	---	---	---	---	---	58 - 64	60	54 - 60	58	48 - 54	54

MACHINE TRAVEL WITHOUT LOAD - BOOM AND FIXED JIB NO. 132									
JOBSITE MOVES AT 1.2 MPH (2 km/hr) CREEP 123,200 LB. (55 880 kg) CRANE COUNTERWEIGHT GANTRY UP WITH PENDANTS ATTACHED TO BOOM TOP									
BOOM • JIB LENGTH		UPPER FACING FRONT BOOM ANGLE RANGE IN DEGREES PERCENT GRADE							
		DOWN 5%		LEVEL 0%		UP 5%			
		RECOMMENDED		RECOMMENDED		RECOMMENDED			
FEET	METERS	RANGE	ANGLE	RANGE	ANGLE	RANGE	ANGLE	RANGE	ANGLE
130 • 40	39.6 • 12.2	16 - 42	30	16 - 34	26	16 - 28	20		
130 • 60	39.6 • 18.3	20 - 44	34	20 - 38	30	20 - 32	26		
130 • 80	39.6 • 24.4	24 - 48	36	24 - 42	32	24 - 36	28		
130 • 100	39.6 • 30.5	26 - 50	40	26 - 44	36	26 - 38	32		
130 • 120	39.6 • 36.6	32 - 52	44	30 - 46	40	30 - 42	36		
140 • 40	42.7 • 12.2	16 - 46	34	16 - 40	30	16 - 36	26		
140 • 60	42.7 • 18.3	22 - 48	36	18 - 44	32	18 - 38	28		
140 • 80	42.7 • 24.4	30 - 52	38	22 - 46	34	22 - 40	30		
140 • 100	42.7 • 30.5	38 - 54	42	30 - 48	38	26 - 44	34		
140 • 120	42.7 • 36.6	42 - 56	46	36 - 50	42	30 - 46	38		
150 • 40	45.7 • 12.2	28 - 50	38	20 - 46	34	14 - 40	30		
150 • 60	45.7 • 18.3	36 - 52	42	28 - 48	38	20 - 42	34		
150 • 80	45.7 • 24.4	40 - 54	46	34 - 50	42	28 - 44	38		
150 • 100	45.7 • 30.5	44 - 56	48	40 - 52	44	34 - 46	40		
150 • 120	45.7 • 36.6	50 - 58	54	44 - 54	48	38 - 48	44		
160 • 40	48.8 • 12.2	40 - 54	46	34 - 50	42	26 - 44	38		
160 • 60	48.8 • 18.3	44 - 56	48	38 - 52	44	32 - 46	40		
160 • 80	48.8 • 24.4	48 - 58	50	42 - 52	46	36 - 48	42		
160 • 100	48.8 • 30.5	52 - 60	54	46 - 54	50	40 - 50	46		
160 • 120	48.8 • 36.6	54 - 60	56	50 - 56	54	44 - 52	50		
170 • 40	51.8 • 12.2	46 - 56	50	40 - 52	46	34 - 48	42		
170 • 60	51.8 • 18.3	48 - 58	52	44 - 54	48	38 - 50	44		
170 • 80	51.8 • 24.4	52 - 60	54	46 - 56	50	42 - 50	48		
170 • 100	51.8 • 30.5	54 - 62	56	50 - 56	54	46 - 52	50		
170 • 120	51.8 • 36.6	58 - 62	58	54 - 58	56	48 - 54	54		
180 • 40	54.9 • 12.2	52 - 60	54	46 - 54	50	40 - 50	46		
180 • 60	54.9 • 18.3	54 - 60	56	50 - 56	54	44 - 52	50		
180 • 80	54.9 • 24.4	56 - 62	58	52 - 58	56	46 - 54	52		
180 • 100	54.9 • 30.5	---	---	54 - 58	56	50 - 54	54		
180 • 120	54.9 • 36.6	---	---	56 - 60	58	52 - 56	56		
190 • 40	57.9 • 12.2	56 - 62	58	50 - 58	54	46 - 52	50		
190 • 60	57.9 • 18.3	58 - 62	58	54 - 58	56	48 - 54	54		
190 • 80	57.9 • 24.4	60 - 64	60	56 - 60	58	50 - 56	56		
200 • 40	61.0 • 12.2	60 - 64	60	54 - 60	58	50 - 56	54		