

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 LUFFING JIB NO. 133 OR NO. 133A

MANITOWOC 16 X 8 CARRIER WITH 145 PSI (1000 kPa) RIMS

ALLOWABLE RATINGS ARE BASED ON MANUFACTURER'S PERMISSIBLE RATINGS FOR AXLES, TIRES, 145 PSI (1000 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.	391,400	323,000	280,000	248,000	202,800	172,000	156,600	142,200	109,100
FRONT AXLE GROUP - kg	177 540	146 510	127 010	112 490	91 990	78 020	71 030	64 500	49 490
REAR AXLE GROUP - LBS.	234,800	193,800	168,000	148,800	121,700	103,200	93,900	85,300	65,400
REAR AXLE GROUP - kg	106 500	87 910	76 200	67 490	55 200	46 810	42 590	38 690	29 660
GROSS VEHICLE WT. - LBS.	626,200	516,800	448,000	396,800	324,500	275,200	250,500	227,500	174,500
GROSS VEHICLE WT. - kg	284 040	234 420	203 210	179 990	147 190	124 830	113 620	103 190	79 150
TIRE PRESSURE - PSI	145	145	145	145	145	145	145	145	145
TIRE PRESSURE - kPa	1000	1000	1000	1000	1000	1000	1000	1000	1000
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.

LUFFING JIB LENGTHS SHOWN IN TABLE ON PAGE 2 REQUIRE LUFFING JIB TO BE SET BETWEEN 140 TO 160 DEGREE BOOM TO LUFFING JIB ANGLE (20 TO 40 DEGREE OFFSET ANGLE).

LOAD BLOCK SUSPENDED BELOW MAIN LUFFING 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 (0.5 DEGREES).

TRAVEL WITH FULLY RIGGED BOOM AND LUFFING JIB WITH 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 TABLE ON PAGE 2.

TRAVEL WITH NO BOOM ATTACHED (LOWER BUTT SECTION ONLY ATTACHED) IS LIMITED TO 2.5 MPH (4 km/hr) WITH UPPER FACING REAR ONLY AND MAXIMUM OF 123,200 LB. (55 880 kg) COUNTERWEIGHT ATTACHED OR LIMITED TO CREEP WITH NO BOOM ATTACHED (LOWER BUTT SECTION ONLY ATTACHED) AND COUNTERWEIGHT GREATER THAN 123,200 LBS. (55 880 kg) ATTACHED WITH UPPER FACING REAR ONLY.

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.

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MACHINE TRAVEL WITHOUT LOAD - BOOM WITH LUFFING JIB NO. 133 OR NO. 133A
SET BETWEEN 140 - 160 DEGREE BOOM TO LUFFING JIB ANGLE

JOB SITE 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 • LUFFING 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
80 • 70	24.4 • 21.3	18 - 50	38	18 - 44	34	22 - 38	30
80 • 80	24.4 • 24.4	20 - 52	40	20 - 46	36	24 - 40	32
80 • 90	24.4 • 27.4	20 - 56	42	20 - 50	38	24 - 44	34
80 • 100	24.4 • 30.5	22 - 58	44	22 - 52	40	26 - 48	36
80 • 110	24.4 • 33.5	22 - 60	46	22 - 56	42	26 - 50	38
80 • 120	24.4 • 36.6	24 - 62	48	24 - 58	44	28 - 52	40
80 • 130	24.4 • 39.6	24 - 64	48	24 - 60	44	28 - 54	40
80 • 140	24.4 • 42.7	34 - 66	50	26 - 62	46	30 - 56	42
80 • 150	24.4 • 45.7	42 - 68	52	34 - 64	48	30 - 58	44
80 • 160	24.4 • 48.8	50 - 70	56	42 - 66	52	36 - 60	48
80 • 170	24.4 • 51.8	54 - 72	60	48 - 66	56	42 - 62	52
80 • 180	24.4 • 54.9	58 - 72	64	54 - 68	60	48 - 64	56
90 • 70	27.4 • 21.3	16 - 54	40	16 - 48	36	20 - 42	32
90 • 80	27.4 • 24.4	18 - 56	42	18 - 52	38	22 - 46	34
90 • 90	27.4 • 27.4	20 - 58	44	20 - 54	40	24 - 48	36
90 • 100	27.4 • 30.5	20 - 62	46	20 - 56	42	24 - 52	38
90 • 110	27.4 • 33.5	22 - 64	48	22 - 58	44	26 - 54	40
90 • 120	27.4 • 36.6	32 - 66	50	24 - 60	46	26 - 56	42
90 • 130	27.4 • 39.6	38 - 66	50	30 - 62	46	26 - 58	42
90 • 140	27.4 • 42.7	46 - 68	54	40 - 64	50	32 - 60	46
90 • 150	27.4 • 45.7	52 - 70	58	46 - 66	54	38 - 60	50
90 • 160	27.4 • 48.8	56 - 72	62	50 - 66	58	44 - 62	54
90 • 170	27.4 • 51.8	60 - 72	66	54 - 68	62	48 - 64	58
100 • 70	30.5 • 21.3	16 - 58	42	16 - 52	38	20 - 48	34
100 • 80	30.5 • 24.4	18 - 60	44	18 - 54	40	22 - 50	36
100 • 90	30.5 • 27.4	20 - 62	46	18 - 56	42	22 - 52	38
100 • 100	30.5 • 30.5	32 - 64	48	24 - 58	44	24 - 54	40
100 • 110	30.5 • 33.5	38 - 66	50	32 - 60	46	24 - 56	42
100 • 120	30.5 • 36.6	44 - 68	52	38 - 62	48	32 - 58	44
100 • 130	30.5 • 39.6	48 - 68	54	42 - 64	50	36 - 60	46
100 • 140	30.5 • 42.7	54 - 70	58	48 - 66	54	42 - 62	50
110 • 70	33.5 • 21.3	20 - 60	44	16 - 56	40	20 - 52	36
110 • 80	33.5 • 24.4	30 - 62	46	22 - 58	42	20 - 54	38
110 • 90	33.5 • 27.4	36 - 64	48	30 - 60	44	22 - 54	40
110 • 100	33.5 • 30.5	42 - 66	50	36 - 62	46	30 - 56	42
110 • 110	33.5 • 33.5	48 - 68	52	42 - 62	48	36 - 58	44
110 • 120	33.5 • 36.6	52 - 70	58	46 - 64	54	40 - 60	50
120 • 70	36.6 • 21.3	36 - 64	46	30 - 58	42	22 - 54	38
120 • 80	36.6 • 24.4	42 - 66	50	36 - 60	46	28 - 56	42
120 • 90	36.6 • 27.4	46 - 66	54	40 - 62	50	34 - 58	46
120 • 100	36.6 • 30.5	50 - 68	58	44 - 64	54	38 - 60	50
130 • 70	39.6 • 21.3	46 - 66	54	40 - 62	50	34 - 56	46