

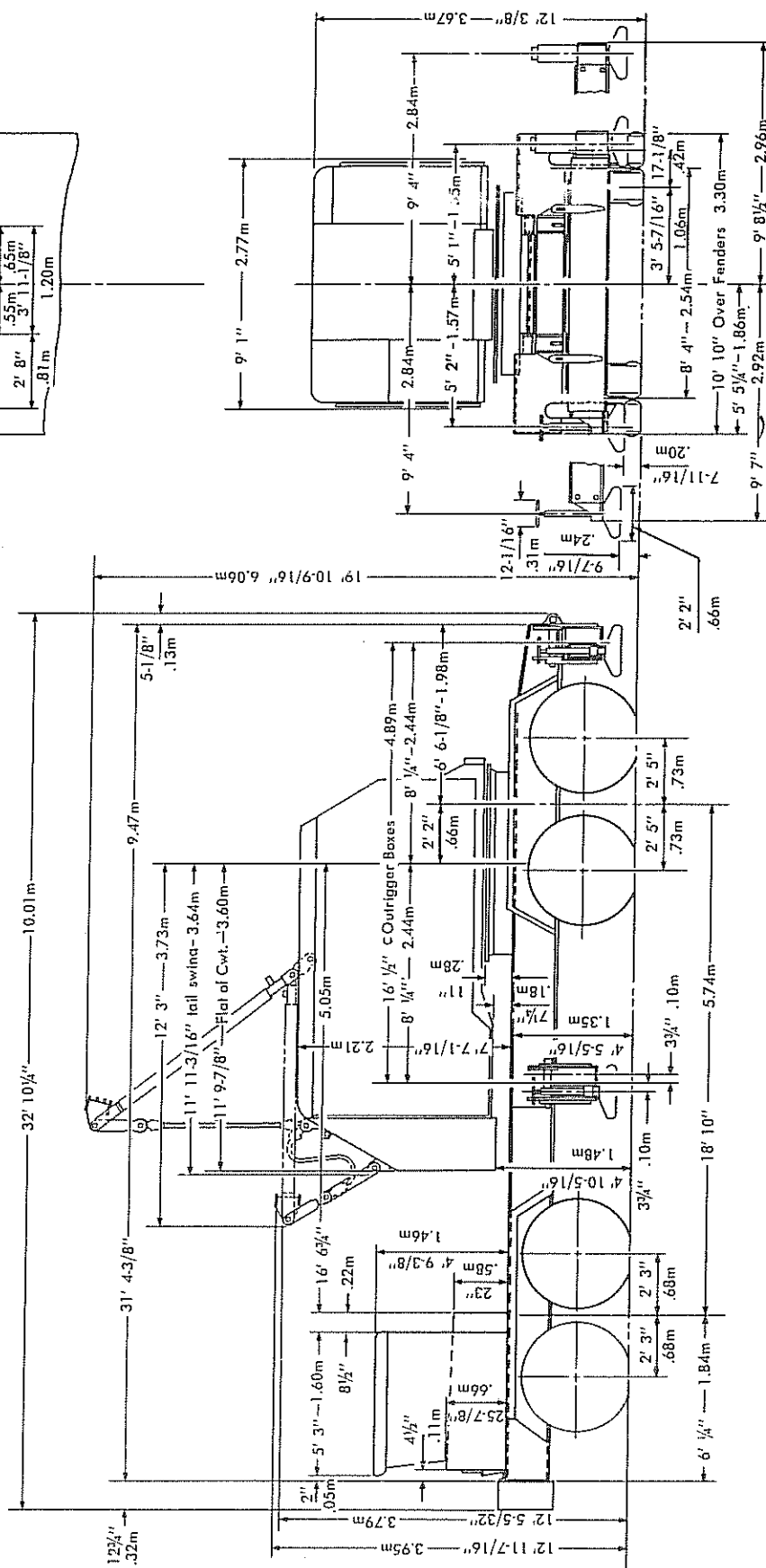
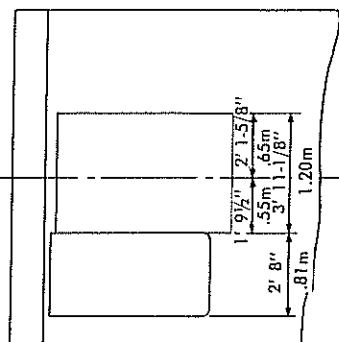


MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin

TOP VIEW OF TRUCK FRONT



12-30-65
5-3-65
Drwg. Date 3-4-65

OUTLINE DIMENSIONS - M2900T



adjustments	instructions
MANITOWOC ENGINEERING CO.	
A Division of The Manitowoc Company, Inc.	Manitowoc, Wisconsin

HOIST LINE LENGTHS - 2900

BOOM NO. 16 - LIFT CRANE

Boom Length	Whip Line Left Drum 1 Part Line Ft.	Load Line Right Drum Ft.	Parts Of Line (Load Line)
40	100	340	7
50	120	420	7
60	140	500	7
70	160	580	7
80	180	580	6
90	200	650	6
100	220	650	5
110	240	650	4
120	260	650	4
130	280	670	4
140	300	670	3
150	320	670	3
160	340	670	3

Whipline: 3/4" - 6 x 25 Filler Wire, Regular Lay, Improved Plow Steel, Preformed, IWRC.

Load Line: 7/8" - 6 x 25 Filler Wire, Regular Lay, Improved Plow Steel, Preformed, IWRC.

When jib is used, increase length of whipline by twice the length of jib.



adjustments instructions

MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin

RANGE CHART - 2900 SERIES 2

BOOM NO. 16

	BOOM LENGTH – FEET														
RADIUS IN FT.	40	50	60	70	80	90	100	110	120	130	140	150	160	RADIUS IN FT.	
	BOOM ANGLE IN DEGREES														
12	76.9													12	
15	72.4	76.0	78.4	80.0	81.3									15	
16	70.9	74.8	77.4	79.2	80.6	81.6								16	
17	69.4	73.6	76.4	78.4	79.9	81.0								17	
18	67.8	72.4	75.4	77.6	79.1	80.4	81.3							18	
19	66.3	71.2	74.5	76.7	78.4	79.7	80.7	81.6						19	
20	64.7	70.0	73.5	75.9	77.7	79.1	80.1	81.0	81.8					20	
22	61.5	67.6	71.5	74.1	76.2	77.6	79.0	80.0	80.8	81.5				22	
24	58.2	65.0	69.4	72.5	74.7	76.5	77.8	78.9	79.9	80.6	81.3			24	
26	54.8	62.5	67.4	70.4	73.2	75.1	76.7	77.9	79.0	80.0	80.5	81.1		26	
28	51.2	59.9	65.3	69.0	71.7	73.8	75.5	76.8	77.9	78.9	79.7	80.3	81.0	28	
30	47.4	57.2	63.2	67.2	70.2	72.5	74.2	75.7	77.0	78.0	78.8	79.6	80.3	30	
32	43.4	54.4	61.0	65.5	68.7	71.1	73.1	74.7	76.0	77.0	78.0	78.8	79.5	32	
34	39.0	51.6	58.8	63.6	67.1	69.8	71.9	73.6	75.0	76.1	77.1	78.0	78.8	34	
36	34.2	48.6	56.5	61.8	65.6	68.4	70.7	72.5	74.0	75.3	76.3	77.3	78.1	36	
38	28.7	45.4	54.2	59.9	64.0	67.0	69.5	71.4	73.0	74.3	75.5	76.5	77.3	38	
40	22.0	42.1	51.8	58.0	62.4	65.7	68.2	70.2	72.0	73.4	74.6	75.7	76.6	40	
45		32.7	45.5	53.0	58.3	62.1	65.1	67.5	69.5	71.1	72.5	73.7	74.8	45	
50		19.7	38.3	47.7	53.9	58.5	61.9	64.7	66.9	68.8	70.3	71.7	72.9	50	
55			29.8	41.9	49.4	54.6	58.6	61.7	64.3	66.4	68.2	69.7	71.0	55	
60			17.9	35.4	44.5	50.6	55.1	58.7	61.6	64.0	65.9	67.6	69.1	60	
65				27.5	39.1	46.3	51.6	55.6	58.8	61.5	63.7	65.6	67.2	65	
70				16.6	33.0	41.8	47.9	52.4	56.0	58.9	61.4	63.4	65.2	70	
75					25.7	36.8	43.9	49.0	53.0	56.3	59.0	61.2	63.2	75	
80					15.5	31.0	39.6	45.5	50.0	53.6	56.6	59.1	61.2	80	
85						24.2	34.8	41.7	46.8	50.8	54.1	56.8	59.1	85	
90							29.4	37.7	43.5	47.9	51.5	54.5	57.0	90	
95							23.0	33.1	39.9	44.9	48.9	52.1	54.9	95	
100								28.0 21.9	36.0	41.7	46.1	49.7	52.6	100	
105									31.7	38.2	43.2	47.1	50.4	105	
110									26.8	34.5	40.1	44.4	48.0	110	
115									20.9	30.4	36.8	41.6	45.5	115	
120										25.8 20.0	33.2	38.7	43.0	120	
125											29.3	35.5	40.3	125	
130											24.8	32.0	37.4	130	
135											19.4	28.3	34.4	135	
140												24.0	31.0	140	
145												18.7	27.4	145	
150													23.2	150	
155													18.0	155	

The radii shown above are the horizontal distances from the center of rotation to the center of the lower boom point. Add 12" to boom point radius for radius of sheaves when using single part line.

Machine must be level for correct length.



adjustments instructions

MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin

LIFTING CAPACITIES - 2900 SERIES 2

BOOM NO. 16 - LIFTCRANE

RATING OVER REAR ON EXTENDED OUTRIGGERS

		CAPACITIES IN THOUSANDS OF LBS.													
RAD. FT.	Boom Length — Ft.													RAD. FT.	
	40	50	60	70	80	90	100	110	120	130	140	150	160		
12	130.0													12	
15	120.0	120.0	120.0	109.5	103.8									15	
16	117.5	117.0	116.0	106.2	102.4	98.0								16	
17	116.0	115.0	114.0	103.9	99.4	95.7								17	
18	113.7	113.8	111.8	101.0	97.3	93.0	86.0							18	
19	105.7	106.2	104.5	98.2	94.6	91.0	85.6	69.2						19	
20	98.6	99.6	98.2	96.3	92.1	88.6	83.3	69.2	69.2					20	
22	86.5	88.2	87.4	85.9	84.6	83.0	80.3	69.2	69.2	66.6				22	
24	76.6	79.0	78.6	77.5	76.3	74.9	74.0	69.2	69.2	64.5	51.8			24	
26	68.3	71.3	71.3	70.5	69.5	68.2	67.3	66.9	65.6	61.9	51.8	48.5		26	
28	61.2	64.7	65.2	64.6	63.7	62.6	61.7	61.3	60.1	59.0	51.8	47.9	42.9	28	
30	54.9	59.0	58.9	58.8	58.5	57.8	57.0	56.5	55.4	54.4	51.8	46.7	42.0	30	
32	49.3	54.0	53.8	53.6	53.3	53.2	52.9	52.4	51.4	50.4	50.3	45.2	41.3	32	
34	44.1	49.5	49.4	49.2	48.9	48.8	48.5	48.3	47.8	46.9	46.7	44.3	40.5	34	
36	39.3	45.5	45.6	45.4	45.1	45.0	44.7	44.5	44.3	43.9	43.7	42.9	39.3	36	
38	34.6	41.8	42.4	42.2	41.8	41.7	41.5	41.3	41.0	40.8	40.6	40.2	38.2	38	
40	29.8	38.4	39.5	39.3	39.0	38.9	38.6	38.4	38.1	37.9	37.7	37.5	36.8	40	
45		30.6	33.7	33.5	33.2	33.1	32.8	32.6	32.3	32.1	31.9	31.6	31.4	45	
50		22.8	28.7	29.1	28.8	28.7	28.4	28.2	27.9	27.7	27.4	27.2	26.9	50	
55			23.5	25.7	25.3	25.2	24.9	24.7	24.4	24.2	23.9	23.7	23.4	55	
60			17.9	22.5	22.5	22.4	22.1	21.9	21.6	21.4	21.1	20.9	20.6	60	
65				18.7	20.2	20.1	19.8	19.6	19.3	19.1	18.8	18.6	18.3	65	
70				14.5	18.0	18.1	17.8	17.4	17.3	17.1	16.8	16.6	16.3	70	
75					15.1	16.5	16.2	16.0	15.7	15.5	15.2	15.0	14.7	75	
80					11.7	14.7	14.8	14.6	14.3	14.0	13.8	13.5	13.2	80	
85						12.4	13.5	13.3	13.0	12.8	12.5	12.3	12.0	85	
90						12.7	12.0	12.2	11.9	11.7	11.4	11.2	10.9	90	
95							10.1	11.3	11.0	10.7	10.5	10.2	9.9	95	
100								9.9	10.1	9.9	9.6	9.4	9.1	100	
105								8.3	9.3	9.1	8.8	8.6	8.3	105	
110									8.0	8.4	8.1	7.9	7.6	110	
115									6.6	7.6	7.5	7.3	7.0	115	
120										6.5	6.9	6.7	6.4	120	
125										5.3	6.0	6.2	5.9	125	
130											5.1	5.5	5.4	130	
135											4.0	4.7	4.9	135	
140												3.9	4.2	140	
145												3.0	3.5	145	
150													2.7	150	

Capacities do not exceed 85% of tipping with outriggers fully set, machine in a level position and gantry up. Operating radius is horizontal distance from centerline of rotation to a vertical line through the center of gravity of the freely suspended load.

Weight of load block, hook, weight ball, slings etc. is considered part of the load.

Machine equipped with Manitowoc-Hendrickson 8 x 4 carrier with 226" wheelbase, 105" front axle track, 100" rear axle track, 14:00 x 20 tires, 112" outriggers, 9' gantry, 10 part boom hoist, 1-3/8" pendant bridles, 26,000 lb. crane counterweight and 7,500 lb. front bumper counterweight.



adjustments instructions

MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin

LIFTING CAPACITIES - 2900 SERIES 2

BOOM NO. 16 - LIFTCRANE

RATING OVER SIDE ON EXTENDED OUTRIGGERS

		CAPACITIES IN THOUSANDS OF LBS.													
RAD. FT.	Boom Length — Ft.													RAD. FT.	
	40	50	60	70	80	90	100	110	120	130	140	150	160		
12	130.0													12	
15	120.0	120.0	120.0	109.5	103.8									15	
16	117.5	117.0	116.0	106.2	102.4	98.0								16	
17	116.0	115.0	114.0	103.9	99.4	95.7								17	
18	113.7	113.8	111.8	101.0	97.3	93.0	86.0							18	
19	105.7	106.2	104.5	98.2	94.6	91.0	85.6	69.2						19	
20	98.6	99.6	98.2	96.3	92.1	88.6	83.3	69.2	69.2					20	
22	86.5	88.2	87.4	85.9	84.6	83.0	80.3	69.2	69.2	66.6				22	
24	75.9	75.8	75.6	75.5	75.3	74.9	74.0	69.2	69.2	64.5	51.8			24	
26	66.5	66.3	66.2	66.0	65.8	65.7	65.5	65.4	65.2	61.9	51.8	48.5		26	
28	59.1	58.9	58.7	58.6	58.4	58.2	58.0	57.9	57.7	57.5	51.8	47.9	42.9	28	
30	53.1	53.0	52.7	52.6	52.3	52.2	52.0	51.8	51.6	51.5	51.3	46.7	42.0	30	
32	48.2	48.0	47.8	47.7	47.4	47.3	47.0	46.9	46.7	46.5	46.3	45.2	41.3	32	
34	44.1	43.9	43.7	43.5	43.2	43.1	42.9	42.7	42.5	42.3	42.1	41.9	40.5	34	
36	39.3	40.4	40.1	40.0	39.7	39.6	39.3	39.2	38.9	38.7	38.5	38.3	38.1	36	
38	34.6	37.4	37.1	37.0	36.7	36.5	36.3	36.1	35.9	35.7	35.5	35.3	35.0	38	
40	29.8	34.8	34.5	34.3	34.0	33.9	33.7	33.5	33.2	33.0	32.8	32.6	32.4	40	
45		29.5	29.2	29.0	28.7	28.6	28.3	28.1	27.9	27.7	27.4	27.2	27.0	45	
50		22.8	25.2	25.0	24.7	24.6	24.3	24.1	23.9	23.7	23.4	23.2	22.9	50	
55			22.1	21.9	21.6	21.5	21.2	21.0	20.7	20.5	20.3	20.0	19.8	55	
60			17.9	19.4	19.1	19.0	18.7	18.5	18.2	18.0	17.7	17.5	17.2	60	
65				17.4	17.0	16.9	16.6	16.4	16.1	15.9	15.6	15.4	15.2	65	
70				14.5	15.3	15.2	14.9	14.7	14.4	14.2	13.9	13.7	13.4	70	
75					13.8	13.7	13.4	13.2	12.9	12.7	12.4	12.2	11.9	75	
80					11.7	12.5	12.2	12.0	11.7	11.5	11.2	11.0	10.7	80	
85						11.4	11.1	10.9	10.6	10.4	10.1	9.9	9.6	85	
90							10.1	9.9	9.6	9.4	9.1	8.9	8.6	90	
95							9.3	9.1	8.8	8.6	8.3	8.1	7.8	95	
100								8.3	8.0	7.8	7.5	7.3	7.0	100	
105								7.7	7.4	7.1	6.9	6.6	6.3	105	
110									6.8	6.5	6.2	6.0	5.7	110	
115									6.2	6.0	5.7	5.5	5.2	115	
120										5.5	5.2	5.0	4.7	120	
125										5.0	4.7	4.5	4.2	125	
130											4.3	4.1	3.8	130	
135											3.9	3.7	3.4	135	
140												3.0	3.1	140	
145												3.0	2.7	145	
150													2.4	150	

Capacities do not exceed 85% of tipping with outriggers fully set, machine in a level position and gantry up. Operating radius is horizontal distance from centerline of rotation to a vertical line through the center of gravity of the freely suspended load.

Weight of load block, hook, weight ball, slings etc. is considered part of the load.

Machine equipped with Manitowoc-Hendrickson 8 x 4 carrier with 226" wheelbase, 105" front axle track, 100" rear axle track, 14:00 x 20 tires, 112" outriggers, 9' gantry, 10 part boom hoist, 1-3/8" pendant bridles, 26,000 lb. crane counterweight and 7,500 lb. front bumper counterweight.