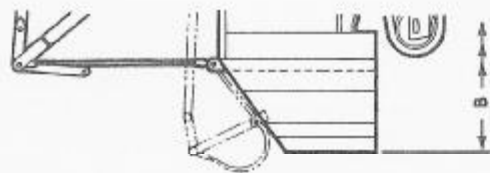


MANITOWOC ENGINEERING CO.

A Division of The Monitor-Roc Company, Inc.

Monitowoc, Wisconsin

DIMENSIONS	D	E
W/CAT. & G.M. VICON	5' 8.7"/16" (1.738m)	11' 3.3"/16" (3.434m)
W/CUMMINS VICON	5' 7.11"/16" (1.719m)	11' 0.7"/16" (3.364m)



NOTE 3

HEIGHT DIMENSIONS SHOWN ARE FOR OUTSIDE DRIVE
WITH 48" TREADS.

WITH 36" TREADS DEDUCT 1/2"

FOR INSIDE DRIVE WITH 48" TREADS DEDUCT 1/4".

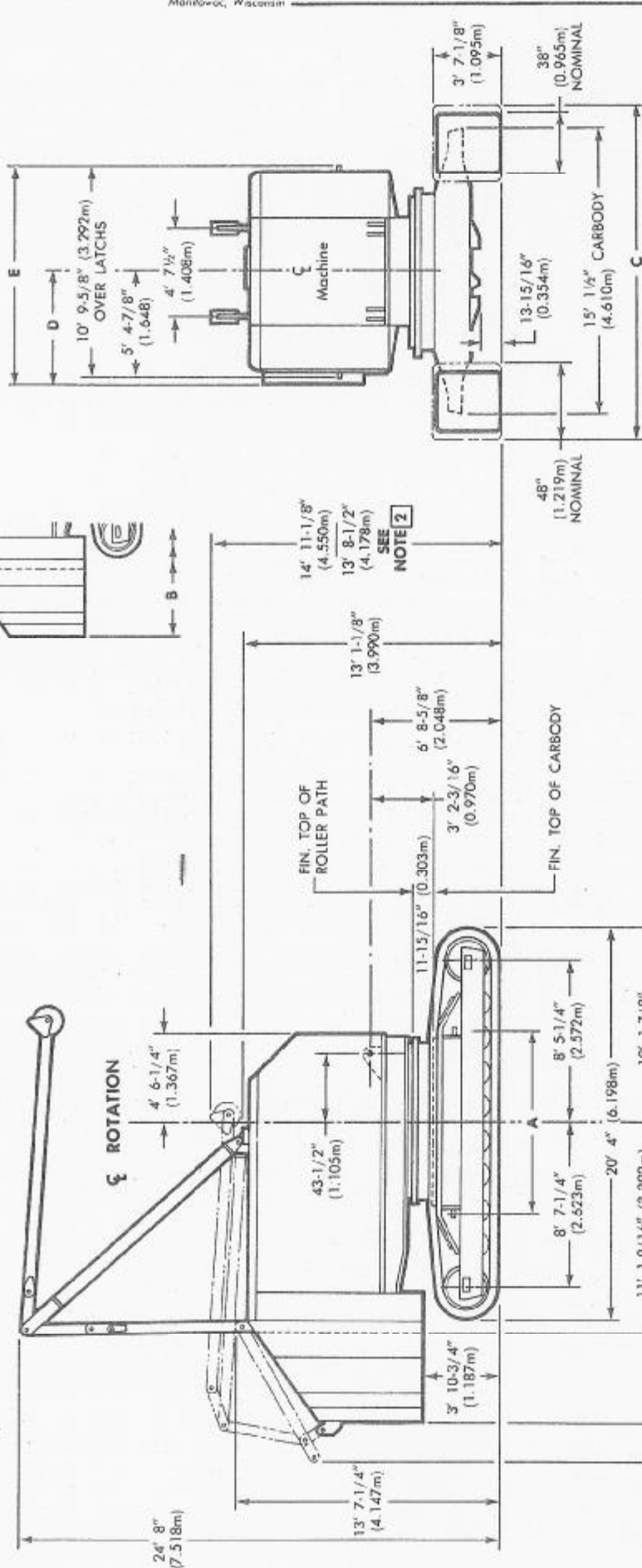
WITH 38" TREADS DEDUCT 3/4".

NOTE 1

CRAWLER FRAMES MAY BE REMOVED FOR LOADING, REDUCING ALL HEIGHTS 13 IN. USE CAB DIM. 10' 10" FOR LOAD WIDTH.

NOTE 2

SPECIAL LOW CLEARANCE GANTRY 42732
OVERALL CLEARANCE HEIGHT.



DIMENSIONS	CARBODY WIDTH A	B		C
		FLAT OF CTWT.	TAILSWING	
W/INSIDE CRAWLER DRIVE	8' 8-1/2" (2.654)			
W/OUTSIDE CRAWLER DRIVE	9' 11" (3.022m)			
2ND CTWT.		14' 2-7/16" (4.329m)	15' 1-3/8" (4.607m)	
3RD CTWT. W/PENDANT OR LINK TYPE BACK-HITCH.		15' 6-15/16" (4.748m)	15' 9-1/8" (4.804m)	
OVER 38" CRAWLERS				16' 8" (5.080m)
OVER 48" CRAWLERS				17' 6" (5.334m)

3900
(100 Ton Machine)

6-15-81

3-21-68

Drwg. Date 5-6-64

SUPERSEDES DWG. 24273 OF 11-30-60 & 0-1368

OUTLINE DIFFERENTIALS



MAN TOWED 3900R CRAWLER CRANE SERIAL NO. 39854
 100 TON CAPACITY 3900 DRIVER
 74,000 LB OF COLUMN WEIGHT
 CHART NO. 1227-2

CL 32" LEADS FT	RAYMOND HEAVY DUTY BOOM FT	ALLOWABLE WEIGHT IN POUNDS - CORE & SHELL OR FOLLOWER & PILE		DRIVER RADII: FEET
		OF MODEL 605 DIESEL PILE HAMMER	ICE MODEL 805 DIESEL PILE HAMMER	
10 1/2	88	47,000	46,000	24
		34,600	33,600	28
		25,000	23,700	32
		15,200	14,100	36
		7,500	6,300	40
		2,300	1,900	44
11 1/2	88	41,100	40,800	24
		32,000	30,600	28
		22,500	21,200	32
		13,700	13,000	36
		6,100	5,800	40
		1,600	1,700	44
12 1/2	88	40,800	39,600	24
		28,000	26,800	28
		19,200	17,400	32
		11,000	9,200	36
		4,200	3,000	40
		1,700	1,200	44

NOTES

1. DETERMINE WEIGHT OF CORE AND SHELL, OR FOLLOWER AND PILE, PLUS DRILL AUGER, DRILL GUIDES, JET, PILE LIFTING BRACKETS, LIFTING TACKLE, ETC. ALLOWANCE HAS BEEN MADE ABOVE FOR BOOM, LEADS, HAMMER, SPROCKETS, AND CAPBLOCK WEIGHT.
 2. CONSULT COLUMN FOR HAMMER IN USE AND NEAREST PILE WEIGHT TO DETERMINE SAFE OPERATING RADII FROM KINGPIN TO CENTER OF PILE COLUMN.
- * LOADS ARE CALCULATED WITH LEADS IN VERTICAL POSITION.



MANITOWOC 3900 B CRAWLER CRANE SERIAL NO. 39854 CHART NO. 1227-1
EQUIPPED WITH HEAVY DUTY RAYMOND BOOM, 74,000 LB OF COUNTERWEIGHT

40' BOOM LENGTH				56' BOOM LENGTH				72' BOOM LENGTH				88' BOOM LENGTH				104' BOOM LENGTH			
OPER RADIUS: FEET	BOOM ANGLE: DEG.	BOOM PT ELEV: FEET	CAPACITY: POUNDS	BOOM ANGLE: DEG.	BOOM PT ELEV: FEET	CAPACITY: POUNDS	BOOM ANGLE: DEG.	BOOM PT ELEV: FEET	CAPACITY: POUNDS	BOOM ANGLE: DEG.	BOOM PT ELEV: FEET	CAPACITY: POUNDS	BOOM ANGLE: DEG.	BOOM PT ELEV: FEET	CAPACITY: POUNDS	BOOM ANGLE: DEG.	BOOM PT ELEV: FEET	CAPACITY: POUNDS	
12	78.0	45.8	200,000*																
13	76.0	45.5	200,000*	79.3	61.7	200,000*													
14	75.0	45.3	200,000*	78.3	61.5	200,000*	81.0	77.8	200,000*										
15	73.5	45.1	200,000*																
16	72.0	44.7	200,000*	77.2	61.3	200,000*	80.1	77.6	200,000*										
17	70.5	44.4	200,000*	76.2	61.0	182,000	79.3	77.4	178,900										
18	68.9	44.0	180,500	75.1	60.8	175,000	78.5	77.2	162,300	80.6	93.5	170,500							
19	67.3	43.6	158,000	74.1	60.5	156,400	77.7	77.0	148,000	79.9	93.3	151,600							
20	65.8	43.2	98,500	73.0	60.3	137,700	76.8	76.9	138,200	79.3	93.2	135,700							
22	62.7	42.3	88,700	70.9	59.6	119,200	75.2	76.3	116,700	78.0	92.8	115,100				81.0	109.4	138,000	
24	59.4	41.2	80,000	68.7	58.9	102,000	73.6	75.8	102,500	76.6	92.3	98,400						115,500	
26	55.5	39.7	72,200	66.5	58.0	90,300	71.9	75.1	92,600	75.3	91.8	85,000						102,100	
28	52.5	38.4	66,400	64.2	57.1	82,200	70.2	74.4	80,100	73.9	91.2	76,600						90,200	
30	48.9	36.8	60,300	62.0	56.1	73,000	68.5	73.7	70,700	72.6	90.7	66,300						81,400	
32	44.8	34.9	55,800	59.6	55.0	68,200	66.8	72.9	64,400	71.2	90.0	61,500						70,000	
34	40.6	32.7	50,600	57.2	53.7	62,400	65.1	72.0	59,000	69.8	89.3	58,800						63,400	
36	35.8	30.2	46,800	54.7	52.4	58,500	63.3	71.0	55,200	68.4	88.5	50,500						54,000	
38	30.7	27.1	43,500	52.1	50.9	52,000	61.5	70.0	50,600	67.0	87.7	44,000						48,700	
40	24.6	23.4	40,500	49.5	49.3	47,400	59.7	68.9	46,000	65.6	86.8	40,300						44,600	
45				42.3	44.4	39,600	55.0	65.7	38,000	62.0	84.4	34,800						41,500	
50				34.1	38.1	32,800	50.0	61.9	32,000	58.2	81.5	25,700						35,100	
55							44.5	57.2	27,300	54.3	78.2	23,300						27,400	
60							38.5	51.5	23,500	50.2	74.3	17,800						23,500	
65							31.5	44.3	20,400	45.8	69.8	15,500						20,000	
70							22.8	34.6	17,800	41.0	64.4	14,200						15,300	
75										35.8	58.2	13,000						14,200	
80										29.8	50.4	12,000						12,400	
85										22.4	40.2	9,000						10,000	
90																		9,000	
95																		7,700	
100																		6,600	
																		5,300	

NOTES:

1. CAPACITIES LISTED EXCEPT WHERE NOTED BY "*", ARE BASED ON 75% OF STATIC LOAD WITH BOOM ACROSS CRAWLERS AND MACHINE ON FIRM, LEVEL GROUND. CAPACITIES LISTED BY "*" ARE LIMITED BY STRUCTURAL COMPETENCE.
2. GANTRY MUST BE UP FOR ALL LIFTING OPERATIONS.
3. MAXIMUM BOOM LENGTH 104', MINIMUM 40'.
4. WEIGHT OF LOAD BLOCK, WEIGHT BALL, SLINGS, ETC. IS CONSIDERED PART OF THE LOAD.
5. MACHINE IS EQUIPPED WITH 20'-4" CRAWLERS, 48" TREADS.
6. TOTAL COUNTERWEIGHT OF 74,000 LB.

**CAPACITY 100-TON 3900 DRIVER**

LENGTH IN FEET		ALLOWABLE WEIGHT, IN POUNDS CORE & SHELL OR FOLLOWER & PILE					DRIVER RADIUS FEET	LENGTH IN FEET		ALLOWABLE WEIGHT, IN POUNDS CORE & SHELL OR FOLLOWER & PILE					DRIVER RADIUS FEET
		1	65C 65-CH	80C 80-CH	3/0	150C				1	65C 65-CH	80C 80-CH	3/0	150C	
LEADS	BOOM							LEADS	BOOM						
72	40	75700	72000	68200	64500	52700	24	112	72	55300	51600	47700	43900	32100	24
		55100	51400	47600	43900	32100	28			43300	39600	35700	31900	20100	28
		41300	37600	33800	30100	18300	32			33900	30200	26300	22500	10700	32
		31300	27600	23800	20100	8800	36			25900	22200	18400	14700	2900	36
		23800	20100	16300	12600	800	40			18300	14600	10800	7100	-	40
		17700	14000	10200	6500	-	44			12200	8500	4700	1000	-	44
80	56	70600	66800	62900	59100	47300	24	120	72	51800	48100	44200	40400	28600	24
		53700	50000	46200	42500	30700	28			40600	36900	33000	29200	17400	28
		39900	36200	32400	28700	16900	32			31900	28200	24300	20400	8600	32
		29700	26000	22200	18500	6700	36			24700	21000	17100	13300	1500	36
		22100	18400	14600	10900	-	40			17300	13600	9800	6100	-	40
		16100	12400	8600	4900	-	44			11200	7500	3700	-	-	44
88	56	66800	63000	59100	55300	43500	24	128	72	48800	45000	41200	37400	25600	24
		52600	48800	44900	41100	29300	28			38200	34400	30600	26800	15000	28
		38900	35200	31400	27700	15900	32			29700	25900	22100	18300	6500	32
		28800	25100	21300	17600	5800	36			22800	19000	15200	11400	-	36
		21200	17500	13700	10000	-	40			16400	12700	8900	5200	-	40
		15100	11400	7600	3900	-	44			10300	6600	2800	-	-	44
96	56	62800	59100	55200	51400	39600	24	136	88	44800	41000	37200	33400	21600	24
		49700	46000	42100	38300	26500	28			34800	31000	27200	23400	11600	28
		37900	34200	30400	26700	14900	32			26600	22800	19000	15200	3400	32
		27700	24000	20200	16500	4700	36			20100	16300	12500	8700	-	36
		20200	16500	12700	9000	-	40			14500	10700	6900	3100	-	40
		14200	10500	6700	3000	-	44			9000	5300	1500	-	-	44
104	56	59500	55800	51900	48100	36300	24	144	88	42400	38700	34800	31000	19200	24
		47000	43300	39400	35600	23800	28			32400	28700	24800	21000	9200	28
		37200	33500	29600	25800	14000	32			24600	20900	17000	13200	1400	32
		27100	23400	19600	15900	4100	36			18400	14600	10800	7000	-	36
		19500	15800	12000	8300	-	40			13000	9200	5400	1600	-	40
		13400	9700	5900	2200	-	44			8000	4300	500	-	-	44

NOTES

1. Determine weight of core and shell (or follower and pile) plus drill, auger, drill guides, jet, pile lifting brackets, etc. Allowance has already been made for boom, leaders, spotter, hammer, extensions and capblocks.

2. Consult column for hammer to be used and select weight nearest to that figured above. Read to right to determine safe operating radius from kingpin to center of leader columns.