

# MANITOWOC ENGINEERING CO.

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



## CRANE WEIGHTS

**888 SERIES 1**  
**888 SERIES 2**

NOTE: WEIGHTS MAY FLUCTUATE ± 3% DUE TO MANUFACTURING TOLERANCES

DESCRIPTION:	WEIGHT	
	POUNDS	KILOGRAMS
LIFTCRANE - BOOM NO. 22E: UPPERWORKS AND LOWERWORKS COMPLETE, COUNTERWEIGHT, GANTRY, BACKHITCH, MAST, FULLY RIGGED 70' (21.3m) BOOM NO. 22E WITH OPEN THROAT TOP (INCLUDING SINGLE SHEAVE UPPER BOOM POINT, 230 TON (209t) BLOCK, AND 15 TON (14t) HOOK AND WEIGHT BALL), BOOM STOPS, AND MAXIMUM LENGTH HOIST AND WHIP LINES - 888 SERIES 1 - - -	339,685	154,078
888 SERIES 2 - - -	418,835	189,980
UPPERWORKS MACHINERY MODULE WITH CARBODY: CARBODY, UPPERWORKS WITH TWO FULL POWER DRUMS, OPERATOR'S CAB, GANTRY, BACKHITCH, MAST, BOOM HOIST WIRE ROPE, AND MAXIMUM LENGTH HOIST AND WHIP LINES	85,535	38,798
CRAWLERS: 28' 2" (8 585 mm) CRAWLER ASSEMBLY WITH 48" (1 219 mm) TREADS (EACH) - - - - -	40,845	18,527
COUNTERWEIGHT - UPPER: BOX - SIDE (6 ON 888 SERIES 1, 8 ON SERIES 2) (EACH) - - - - -	17,500	7,938
BOX - CENTER - - - - -	18,000	8,165
TRAY - LOWER COUNTERWEIGHT - - - - -	21,050	9,548
TOTAL UPPERWORKS COUNTERWEIGHT - 888 SERIES 1 - - - - -	144,100	65,363
TOTAL UPPERWORKS COUNTERWEIGHT - 888 SERIES 2 - - - - -	179,100	81,238
COUNTERWEIGHT - LOWER: CARBODY COUNTERWEIGHT (2 ON SERIES 2) (EACH) - - - - -	22,000	9,979
CARBODY COUNTERWEIGHT STEPS (EACH) - - - - -	65	29
GANTRY: 10' 2-3/4" (3 118 mm) GANTRY (WITH NYLON SHEAVES) - - - - -	4,315	1,957
BACKHITCH CYLINDERS (EACH) - - - - -	1,030	467
CTWT. HANDLING LINKS (EACH) - - - - -	245	111
MAST - FOR BOOM NO. 22E: 30' 0" (9 144 mm) MAST (WITH NYLON SHEAVES) - - - - -	5,170	2,345
PENDANT LINK (EACH) - - - - -	165	75
PIN (EACH) (PENDANTS TO PENDANT LINK) - - - - -	25	11
10' 0" (3.0m) PENDANT (EACH) - - - - -	110	50
MAST - FOR BOOM NO. 22EL: 30' 0" (9 144 mm) MAST (WITH NYLON SHEAVES) - - - - -	5,190	2,354
PENDANT LINK ON MAST (EACH) - - - - -	165	75
2' 2" (0.7m) LINK (EACH) WITH PIN - - - - -	115	52
1' 2" (0.4m) LINK (EACH) WITH PINS - - - - -	75	34
6" (152 mm) EQUALIZER LINK (EACH) - - - - -	50	23
8' 4" (2.5m) PENDANT (EACH) - - - - -	100	45
BOOM NO. 22E: 30' 0" (9.1m) BUTT - - - - -	5,700	2,585
40' 0" (12.2m) OPEN THROAT TOP (WITH LOWER POINT AND PENDANT LINKS) - - - - -	8,820	4,001
10' 0" (3.0m) INSERT - - - - -	1,495	678
20' 0" (6.1m) INSERT - - - - -	2,550	1,157
40' 0" (12.2m) INSERT - - - - -	4,460	2,023
40' 0" (12.2m) INSERT (WITH JIB BACKSTAY LUGS) - - - - -	4,560	2,068
40' 9-3/4" (12.4m) BASIC PENDANT (EACH) - - - - -	240	109
10' 0" (3.0m) PENDANT (EACH) - - - - -	110	50
20' 0" (6.1m) PENDANT (EACH) - - - - -	145	66
40' 0" (12.2m) PENDANT (EACH) - - - - -	210	95
WIRE ROPE GUIDE (TOP - 2 SHEAVE) - - - - -	510	231
WIRE ROPE ANCHOR - - - - -	285	129
OFFSET LINK (EACH) - - - - -	45	20
WIRE ROPE ROLLER ASSEMBLY (EACH) - - - - -	55	25
PENDANT SPREADER BAR - - - - -	395	179
WIRE ROPE GUIDE (BUTT) - - - - -	2,035	923
BOOM STOP ASSEMBLY (EACH) - - - - -	765	347

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DESCRIPTION:	WEIGHT	
	POUNDS	KILOGRAMS
BOOM NO. 22EL:		
30' 0" (9.1m) BUTT	6,290	2,853
40' 0" (12.2m) TOP (WITH 7 SHEAVE LOWER POINT, 2 SHEAVE WIRE ROPE GUIDE AND PENDANT LINKS)	10,250	4,649
10' 0" (3.0m) INSERT	1,495	678
20' 0" (6.1m) INSERT	2,550	1,157
40' 0" (12.2m) INSERT	4,460	2,023
40' 0" (12.2m) INSERT (WITH JIB BACKSTAY LUGS)	4,560	2,068
36' 6" (11.1m) BASIC PENDANT (EACH)	210	95
10' 0" (3.0m) PENDANT (EACH)	110	50
20' 0" (6.1m) PENDANT (EACH)	145	66
40' 0" (12.2m) PENDANT (EACH)	210	95
WIRE ROPE GUIDE (TOP - 2 SHEAVE)	1,245	565
WIRE ROPE ANCHOR	285	129
WIRE ROPE ROLLER ASSEMBLY (EACH)	55	25
WIRE ROPE GUIDE (BUTT)	2,440	1,107
BOOM STOP ASSEMBLY (EACH)	765	347
NO. 123 JIB:		
15' 0" (4.6m) BUTT	610	277
15' 0" (4.6m) TOP (WITH JIB POINT)	680	308
10' 0" (3.0m) INSERT	350	159
20' 0" (6.1m) INSERT	580	263
33' 3-3/4" (10.2m) BASIC PENDANT (EACH)	125	57
9' 6" (2.9m) PENDANT (EACH)	65	29
19' 0" (5.8m) PENDANT (EACH)	85	39
JIB STOP PENDANT AND LINK (EACH)	25	11
12' 6" (3.8m) STRUT	405	184
50' 4" (15.3m) BACKSTAY PENDANT (EACH)	130	59
4' 8" (1.4m) BACKSTAY PENDANT (EACH)	35	16
BACKSTAY LINK (EACH)	15	7
W. R. ANCHOR	85	39
JIB ADAPTOR	535	243
NO. 134 JIB:		
15' 0" (4.6m) BUTT	580	263
15' 0" (4.6m) TOP (WITH JIB POINT)	860	390
10' 0" (3.0m) INSERT	350	159
20' 0" (6.1m) INSERT	580	263
30' 9" (9.4m) BASIC PENDANT (EACH)	115	52
9' 6" (2.9m) PENDANT (EACH)	65	29
19' 0" (5.8m) PENDANT (EACH)	85	39
12' 6" (3.8m) STRUT WITH SHEAVE	665	302
BACKSTAY LINK (EACH) ATTACHED TO STRUT	25	11
BACKSTAY TIE LINK	10	5
BACKSTAY LINK (EACH)	65	29
BACKSTAY SPREADER	50	23
44' 7" (13.6m) BACKSTAY PENDANT (EACH)	150	68
4' 8" (1.4m) BACKSTAY PENDANT (EACH)	50	23
BACKSTAY LINK (EACH) ATTACHED TO BOOM INSERT	15	7
JIB STOP ASSEMBLY	175	79
W. R. ANCHOR	85	39

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DESCRIPTION:

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	POUNDS	KILOGRAMS
NO. 135 LUFFING JIB:		
27' 0" (8.2m) BUTT	2,365	1,073
23' 0" (7.0m) TOP (WITH JIB POINT, HAND WINCHES AND PENDANT LINKS)	3,005	1,363
10' 0" (3.0m) INSERT	580	263
20' 0" (6.1m) INSERT	980	445
40' 0" (12.2m) INSERT	1,795	814
OFFSET LINK ADAPTOR FOR FOLD UNDER ARRANGEMENT	320	145
20' 1-1/2" (6.1m) BASIC PENDANT (EACH)	185	84
25' 11" (7.9m) BASIC PENDANT (EACH)	200	91
10' 1" (3.1m) PENDANT (EACH)	130	59
40' 3" (12.3m) PENDANT (EACH)	260	118
26' 0" (7.9m) JIB STRUT WITH GUIDE SHEAVES, LUFFING SHEAVES AND LINKS	4,395	1,994
22' 6" (6.9m) MAIN STRUT WITH LUFFING SHEAVES AND LINKS	3,110	1,411
BACKSTAY BEAM LINK ATTACHED TO MAIN STRUT	610	277
12' 3" (3.7m) BASIC BACKSTAY PENDANT (EACH)	145	66
3' 3" (1.0m) BACKSTAY LINK (EACH)	90	41
2' 0" (0.6m) BACKSTAY LINK (EACH)	65	29
0' 11" (279 mm) BACKSTAY LINK (EACH) ATTACHED TO BOOM BUTT	40	18
ROPE GUIDE ON BOOM TOP FOR FOLD UNDER ARRANGEMENT	440	200
JIB STOP ASSEMBLY	870	395
MAIN STRUT STOP ASSEMBLY	260	118
WIRE ROPE GUIDE ON JIB TOP	600	272
WIRE ROPE ANCHOR	225	102
LUFFING JIB HINGE PIN (EACH)	25	11
MACHINE OPTIONS:		
CARBODY JACKING (EACH)	610	277
CRAWLER POWERED EXTEND/RETRACT (EACH)	140	64
21-1/4" (540 mm) DIA. LAGGING FOR 37" (940 mm) WIDE DRUM	670	304
27" (686 mm) DIA. LAGGING FOR 37" (940 mm) WIDE DRUM	1,230	558
BOOM NO. 22E OPTIONS:		
50' 0" (15.2m) LIGHT TAPERED TOP (WITH LOWER POINT AND PENDANT LINKS)	6,060	2,749
30' 0" (9.1m) TAPERED INSERT	3,670	1,665
40' 9-3/4" (12.4m) BASIC PENDANT (FOR LIGHT TAPERED TOP) (EACH)	240	109
WIRE ROPE GUIDE (OPEN THROAT TOP - 3 SHEAVE)	660	299
UPPER BOOM POINT (SINGLE SHEAVE - FOR OPEN THROAT TOP)	1,200	544
(DOUBLE SHEAVE - FOR OPEN THROAT TOP)	1,505	683
UPPER BOOM POINT (FOR LIGHT TAPERED TOP)	1,030	467
WIRE ROPE GUIDE (FOR LIGHT TAPERED TOP)	520	236
WIRE ROPE ANCHOR JOINT (FOR LIGHT TAPERED TOP)	140	64
BOOM NO. 22EL OPTIONS:		
WIRE ROPE GUIDE (TOP - 3 SHEAVE)	1,845	837
UPPER BOOM POINT	905	411
BOOM NO. 22E OR NO. 22EL OPTIONS:		
10' 0" (3.0m) INSERT WITH WIRE ROPE GUIDE (REQUIRED WITH AUXILIARY DRUM)	2,180	989
10' 0" (3.0m) INSERT WITH REMOVABLE DIAGONALS	1,580	717
20' 0" (6.1m) INSERT WITH REMOVABLE DIAGONALS	2,635	1,195
40' 0" (12.2m) INSERT WITH REMOVABLE DIAGONALS	4,615	2,093
40' 0" (12.2m) INSERT WITH REMOVABLE DIAGONALS (WITH JIB BACKSTAY LUGS)	4,715	2,139
AUXILIARY DRUM ASSEMBLY IN BOOM BUTT	3,670	1,665
21-1/4" (540 mm) DIA. LAGGING FOR AUXILIARY DRUM	670	304
WIRE ROPE GUIDE (10' INSERT - REQUIRED WITH AUXILIARY DRUM)	335	152
BOOM BUTT SUPPORT ASSEMBLY	310	141

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DESCRIPTION:

**LOAD BLOCK AND HOOK AND WEIGHT BALL OPTIONS:**

DESCRIPTION	WEIGHT	
	POUNDS	KILOGRAMS
15 TON (14t) HOOK AND WEIGHT BALL	1,250	567
30 TON (27t) LOAD BLOCK WITH 500 LBS (227 kg) OF WEIGHT PLATES	2,000	907
60 TON (54t) LOAD BLOCK	2,825	1,281
155 TON (141t) LOAD BLOCK	4,660	2,114
200 TON (181t) LOAD BLOCK	5,600	2,540
230 TON (209t) LOAD BLOCK (BOOM NO. 22E)	6,550	2,971
220 TON (200t) LOAD BLOCK (BOOM NO. 22EL)	5,450	2,472

**WIRE ROPE:**

BOOM HOIST - 1060' (323m) OF 22 mm WIRE ROPE - 1.46 LB/FT (2.17 kg/m)	1,550	703
LOAD LINES - 26 mm ROTATION RESISTANT WIRE ROPE 2.13 LB/FT (3.17 kg/m)		
HOIST LINE - 1600' (488m) BOOM NO. 22E	3,410	1,547
HOIST LINE - 1625' (495m) BOOM NO. 22EL	3,460	1,569
HOIST LINE - 1200' (366m) LUFFING JIB NO. 135	2,555	1,159
WHIP LINE - 950' (290m) BOOM NO. 22E WITH OPEN THROAT TOP	2,025	919
WHIP LINE - 1040' (317m) BOOM NO. 22E WITH LIGHT TAPERED TOP	2,215	1,005
WHIP LINE - 1010' (308m) BOOM NO. 22EL	2,215	1,005
AUXILIARY LINE - 1900' (579m) BOOM NO. 22EL	4,045	1,835
AUXILIARY LINE - 2200' (671m) BOOM NO. 22E	4,685	2,125

