

MANITOWOC ENGINEERING CO.

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



CRANE WEIGHTS

M-250

M-250 SERIES 2

M-250 WITH X-SPANDER

NOTE: WEIGHTS MAY FLUCTUATE \pm 3% DUE TO MANUFACTURING TOLERANCES

DESCRIPTION

WEIGHT
POUNDS KILOGRAMS

LIFTCRANE:

UPPERWORKS AND LOWERWORKS COMPLETE, COUNTERWEIGHT, GANTRY, BACKHITCH, FULLY RIGGED 70' (21.3m) BOOM NO. 44 WITH ONE PIECE BUTT AND HEAVY LIFT TOP (INCLUDING UPPER BOOM POINT, 300 TON (272t) BLOCK AND 15 TON (14T) HOOK AND WEIGHT BALL), BOOM STOPS, AND LOAD LINES

M-250	449,965	204 101
M-250 SERIES 2	550,485	249 696
M-250 WITH X-SPANDER	472,900	214 504
M-250 WITH RINGER PREP	462,025	209 571
M-250 SERIES 2 WITH RINGER PREP	562,545	255 166

UPPERWORKS MACHINERY MODULE:

ROTATING BED REAR SECTION, SPLIT REAR DRUMS WITH LOAD LINES, ROTATING BED PIN PULLERS, BOOM HOIST, GANTRY, GANTRY LIFTING CYLINDERS, EQUALIZER, BOOM HOIST LINE, OPERATOR'S CAB, CUMMINS NTA-855-C450 POWER PLANT, HYDRAULIC RESERVOIR (FULL), AND FUEL TANK (1/2 FULL)

76,745	34 811
82,980	37 639

ROTATING MODULE WITH CARBODY:

ROTATING BED FRONT SECTION WITH BEARING TURNABLE, SWING DRIVE, CARBODY WITH PIN PULLERS, ROTATING UNION, PIPING AND INSTALLATION, 40' (12.2m) BOOM BUTT AND BOOM STOPS
WITH RINGER PREP
REPLACE 40' (12.2m) BUTT AND BOOM STOPS WITH 12' (3.7m) LOWER 2 PIECE BUTT

68,560	31 098
74,385	33 740
62,570	28 381

CRAWLERS:

30'9" (9 373 mm) CRAWLER ASSEMBLY WITH 48" (1 219 mm) TREADS (EACH)

56,545	25 648
--------	--------

COUNTERWEIGHT - UPPER:

LOWER TRAY (NOT ON X-SPANDER)	30,000	13 608
LOWER TRAY LINK (NOT ON X-SPANDER) EACH	250	113
LOWER LEFT (NOT ON X-SPANDER)	10,000	4 536
LOWER RIGHT (NOT ON X-SPANDER)	10,000	4 536
LOWER CENTER (M-250 SERIES 2 ONLY)	18,400	8 346
UPPER TRAY	30,600	13 880
UPPER TRAY SUPPORT (EACH)	570	259
UPPER CENTER	10,000	4 536
TOP CENTER	10,000	4 536
UPPER LEFT (2 ON M-250, 3 ON M-250 SERIES 2, 1 ON M-250 WITH X-SPANDER) EACH	10,750	4 876
UPPER RIGHT (2 ON M-250, 3 ON M-250 SERIES 2, 1 ON M-250 WITH X-SPANDER) EACH	10,750	4 876
TOP LEFT	10,750	4 876
TOP RIGHT	10,750	4 876
UPPER POWER PIN WITH CYLINDER (EACH)	28	13
LOWER POWER PIN WITH CYLINDER (EACH)	18	8
TOTAL UPPERWORKS COUNTERWEIGHT - M-250	167,000	75 750
TOTAL UPPERWORKS COUNTERWEIGHT - M-250 SERIES 2	207,000	93 894
TOTAL UPPERWORKS COUNTERWEIGHT - M-250 WITH X-SPANDER	95,500	43 318

COUNTERWEIGHT - LOWER:

CARBODY (2 ON M-250 SERIES 2 AND ON M-250 WITH X-SPANDER) EACH	30,000	13 608
--	--------	--------

GANTRY:

28' (8 534 mm) GANTRY WITH POLYAMIDE SHEAVES	11,130	5 048
BACKHITCH (EACH LEG)	1,585	719
COUNTERWEIGHT HANDLING LINK (EACH)	90	41

X-SPANDER:

48' (14 630 mm) BEAM ASSEMBLY WITH DRIVE, JACKS, AND EQUALIZER	32,430	14 710
49'9" (15.2m) PENDANT (EACH)	640	290
PENDANT LINK (EACH)	125	57

MANITOWOC ENGINEERING CO.

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



CRANE WEIGHTS M-250

M-250 SERIES 2

M-250 WITH X-SPANDER

NOTE: WEIGHTS MAY FLUCTUATE $\pm 3\%$ DUE TO MANUFACTURING TOLERANCES

DESCRIPTION	WEIGHT	
	POUNDS	KILOGRAMS
BOOM NO. 44:		
40' (12.2m) BUTT -----	8,605	3 903
30' (9.1m) TOP WITH LOWER POINT AND WIRE ROPE GUIDE -----	11,425	5 182
10' (3.0m) INSERT -----	1,840	835
20' (6.1m) INSERT -----	3,185	1 445
40' (12.2m) LIGHT INSERT -----	4,305	1 953
40' (12.2m) INSERT -----	5,505	2 497
30' (9.1m) BASIC PENDANT (EACH) -----	225	102
10' 1' (3.1m) PENDANT (EACH) -----	130	59
20' 1-1/2' (6.1m) PENDANT (EACH) -----	185	84
40' 3' (12.3m) PENDANT (EACH) -----	260	118
INTERMEDIATE SUSPENSION LINK (EACH) -----	320	145
68' 4' (20.8m) INTERMEDIATE SUSPENSION PENDANT (EACH) -----	275	125
59' 7' (18.2m) INTERMEDIATE SUSPENSION PENDANT (EACH) -----	225	102
10' (3.0m) INTERMEDIATE SUSPENSION PENDANT (EACH) -----	85	39
UPPER INTERMEDIATE SUSPENSION LINK WITH PIN (EACH) -----	115	52
LOWER INTERMEDIATE SUSPENSION LINK WITH PIN (EACH) -----	65	29
UPPER BOOM POINT (SINGLE SHEAVE) -----	905	411
WIRE ROPE GUIDE (ON BUTT) -----	1,800	816
EQUALIZER (POLYAMIDE SHEAVES) -----	1,705	773
PENDANT LINKS (ATTACHED TO EQUALIZER) -----	765	347
BOOM STOP (EACH TUBE) -----	825	374
JIB NO. 132:		
20' (6.1m) BUTT -----	860	390
20' (6.1m) TOP WITH JIB POINT SHEAVES -----	1,870	848
20' (6.1m) INSERT -----	815	370
40' (12.2m) BASIC PENDANT (EACH) -----	175	79
19' 2' (5.8m) PENDANT (EACH) -----	115	52
JIB STOP PENDANT AND LINK (EACH) -----	35	16
JIB STOP STRUT AND ADDITIONAL PENDANTS (USED WITH LONG REACH BOOM TOP) -----	85	39
20' (6.1m) STRUT WITH SHEAVE AND LINKS -----	1,360	617
69' 9' (21.3m) BACKSTAY PENDANT (EACH) -----	255	116
7' 4' (2.2m) BACKSTAY PENDANT (EACH) -----	80	36
BACKSTAY LINK (EACH) -----	65	29
BACKSTAY SUPPORT (EACH) -----	315	143
LUFFING JIB NO. 139/139A:		
30' (9.1m) BUTT -----	3,130	1 420
40' (12.2m) TOP WITH LOWER POINT, UPPER POINT ROLLER AND WIRE ROPE GUIDE -----	7,445	3 377
10' (3.0m) INSERT -----	965	438
20' (6.1m) INSERT -----	1,770	803
40' (12.2m) INSERT -----	3,260	1 479
PENDANT RATCHET LINK (EACH) -----	135	61
71' 3' (21.7m) BASIC PENDANT (EACH) -----	385	175
10' 1' (3.1m) PENDANT (EACH) -----	130	59
20' 1-1/2' (6.1m) PENDANT (EACH) -----	185	84
40' 3' (12.3m) PENDANT (EACH) -----	260	118
JIB STRUT WITH GUIDE SHEAVE, LUFFING SHEAVES AND LINKS -----	4,425	2 007
MAIN STRUT WITH LUFFING SHEAVES, LINKS AND STRUT SUPPORT BEAM -----	4,635	2 102
LUFFING WIRE ROPE GUIDE -----	975	442
LUFFING WIRE ROPE GUIDE BEAM WITH PINS -----	235	107
73' 6' (22.4m) BASIC BACKSTAY PENDANT (EACH) -----	395	179
BACKSTAY RATCHET LINK (EACH) -----	185	84
BACKSTAY PIN IN BOOM BUTT (EACH) -----	285	129
STRUT STOP TUBE WITH PINS (EACH) -----	55	25
STRUT STOP SUPPORT BEAM (ON BOOM) -----	135	61
25' 9' (7.8m) STRUT HANDLING PENDANT (EACH) -----	30	14
STRUT HANDLING LINK WITH PIN (ON MAIN STRUT) EACH -----	5	2
STRUT HANDLING LINK, WEDGE SOCKET AND PINS -----	45	20
JIB STOP TUBE ASSEMBLY -----	415	188
30' (9.1m) JIB STOP PENDANT (EACH) -----	110	50
11' 2' (3.4m) JIB STOP PENDANT (EACH) -----	75	34

MANITOWOC ENGINEERING CO.

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



CRANE WEIGHTS M-250

M-250 SERIES 2

M-250 WITH X-SPANDER

NOTE: WEIGHTS MAY FLUCTUATE $\pm 3\%$ DUE TO MANUFACTURING TOLERANCES

DESCRIPTION

WEIGHT
POUNDS KILOGRAMS

MACHINE OPTIONS:

45' (1 143 mm) WIDE FRONT DRUM ASSEMBLY -----	6,190	2 808
73' (1 854 mm) WIDE RINGER DRUM ASSEMBLY (EACH) -----	7,310	3 316
GEAR CASE ASSEMBLY FOR TANDEM DRUMS (INCREASE OVER STANDARD) -----	305	138
LUFFING JIB HOIST ASSEMBLY -----	3,065	1 390
2ND SWING DRIVE ASSEMBLY -----	2,125	964
SWING BRAKE RELEASE -----	190	86
SUPPLEMENTAL HYDRAULIC RESERVOIR FOR RINGER -----	300	136
28' (8 534 mm) GANTRY WITH STEEL SHEAVES (INCREASE OVER POLYAMIDE SHEAVES) -----	500	227
BOOM HINGE PIN PULLERS -----	430	195
RINGER ATTACHMENT LUGS ON CARBODY -----	3,700	1 678
24-1/2" (622 mm) DIA. LAGGING FOR 45" (1 143 mm) WIDE FRONT OR RIGHT REAR DRUM --	1,020	463
24-1/2" (622 mm) DIA. LAGGING FOR NARROW LEFT REAR DRUM -----	425	193
24-1/2" (622 mm) DIA. LAGGING FOR 73" (1 854 mm) WIDE RINGER DRUM (EACH) -----	1,800	816

BOOM NO. 44 OPTIONS:

30' (9.1m) TAPERED INSERT WITH WIRE ROPE GUIDE -----	3,985	1 808
40' (12.2m) LONG REACH TOP WITH LOWER POINT -----	6,805	3 087
EQUALIZER (STEEL SHEAVES) -----	2,135	968
RIGGING WINCH IN BUTT -----	820	372
300 TON (272t) LOAD BLOCK WITH SWIVEL HOOK -----	8,000	3 629.11
100 TON (91t) LOAD BLOCK WITH WEIGHT PLATES -----	4,800	2 177
60 TON (55t) LOAD BLOCK WITH WEIGHT PLATES -----	2,825	1 281
60 TON (55t) LOAD BLOCK WITH WEIGHT PLATES -----	4,425	2 007
15 TON (14t) HOOK AND WEIGHT BALL (SWIVEL) -----	1,250	567

SELF-ERECT OPTIONS:

UPPERWORKS JACKING SYSTEM WITH PADS -----	7,325	3 323
CARBODY SUPPORT PEDESTALS -----	550	249
CRAWLER HANDLING ARRANGEMENT -----	430	195
12' (3.7m) LOWER 2 PIECE BUTT -----	4,265	1 935
28' (8.5m) UPPER 2 PIECE BUTT WITH WIRE ROPE GUIDE -----	7,070	3 207
BUTT RAISING CYLINDER AND INSTALLATION -----	875	397
ASSEMBLE AND RIGGING ROPE GUIDES IN BUTT -----	1,825	828
30 TON (27t) LOAD BLOCK WITH WEIGHT PLATES -----	2,000	907
RIGGING LINE - 160' (49m) OF 1-1/8" (29 mm) WIRE ROPE - 2.34 LBS. PER FT. (3.48 kg/m) -----	375	170
RIGGING WINCH LINE - 800' (244m) OF 3/8" (9.5 mm) WIRE ROPE - 0.26 LBS. PER FT. (0.39 kg/m) -----	210	95

WIRE ROPE:

BOOM HOIST - 975' (297m) OF 1" (26 mm) WIRE ROPE - 1.85 LBS. PER FT. (2.75 kg/m)	1,805	819
LUFFING JIB HOIST - 1,200' (366m) OF 7/8" (22 mm) WIRE ROPE - 1.42 LBS. PER FT. (2.11 kg/m) -----	1,705	773
LOAD LINES - 1-1/8" (29 mm) WIRE ROPE - 2.34 LBS. PER FT. (3.48 kg/m)		
HOIST LINE - 2,050' (625m) -----	4,795	2 175
WHIP LINE - 1,270' (387m) WITH HEAVY LIFT TOP -----	2,970	1 347
WHIP LINE - 1,325' (404m) WITH LONG REACH TOP -----	3,100	1 406