

MANITOWOC ENGINEERING CO.

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



WIRE ROPE SPECIFICATIONS

LIFTCRANE - BOOM NO. 8 WITH OPEN THROAT TOP

3900

WIRE ROPE LENGTHS								
BOOM OR BOOM AND JIB LENGTH		WHIP LINE LEFT DRUM				HOIST LINE RIGHT DRUM		MAXIMUM REQUIRED PARTS OF LINE
		1 PART		2 PART				
FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS	
60	18.3	145	44	205	62	645	197	9
70	21.3	165	50	235	72	745	227	9
80	24.4	185	56	265	81	845	258	9
90	27.4	205	62	295	90	845	258	8
100	30.5	225	69	325	99	845	258	7
110	33.5	245	75	355	108	845	258	6
120	36.6	265	81	385	117	845	258	5
130	39.6	285	87	415	126	845	258	5
140	42.7	305	93	445	136	865	264	5
150	45.7	325	99	475	145	865	264	4
160	48.8	345	105	505	154	865	264	4
170	51.8	365	111	535	163	865	264	3
180	54.9	385	117	565	172	865	264	3
190	57.9	405	123	595	181	865	264	3
200	61.0	425	130	625	191	865	264	3
210	64.0	445	136	655	200	865	264	3
220	67.1	465	142	685	209			
230	70.1	485	148	---	---			
240	73.2	505	154	---	---			
250	76.2	525	160	---	---			

NOTE: HOIST LINE AND WHIP LINE LENGTHS GIVEN IN TABLE WILL ALLOW BLOCK TRAVEL DOWN TO LEVEL OF ROLLER PATH. WHEN BLOCK TRAVEL BELOW ROLLER PATH IS REQUIRED, ADD ADDITIONAL ROPE EQUAL TO PARTS OF LINE TIMES ADDED TRAVEL DISTANCE. HOISTING DISTANCE OR LINE PULL MAY BE LIMITED WHEN BLOCK TRAVEL BELOW ROLLER PATH IS REQUIRED.

HOIST REEVING FOR MAIN LOAD BLOCK					
NO. PARTS OF LINE	1	2	3	4	5
MAXIMUM LOAD - LBS.	22,500	45,000	67,500	90,000	112,500
MAXIMUM LOAD - kg	10 200	20 410	30 610	40 820	51 020
NO. PARTS OF LINE	6	7	8	9	
MAXIMUM LOAD - LBS.	135,000	157,500	180,000	200,000	
MAXIMUM LOAD - kg	61 230	71 440	81 640	90 710	
HOIST LINE: 1" (25.4 mm) - 6 X 25 FILLER WIRE, IMPROVED PLOW STEEL, REGULAR LAY, IWRC. MINIMUM BREAKING STRENGTH 89,800 LBS. (40 730 kg) APPROX. WEIGHT = 1.85 LBS. PER FT. (2.75 kg/m)					
WHIP LINE: 1" (25.4 mm) - 6 X 25 FILLER WIRE, IMPROVED PLOW STEEL, REGULAR LAY, IWRC. MINIMUM BREAKING STRENGTH 89,800 LBS. (40 730 kg) MAXIMUM LOAD = 22,500 LBS. (10 200 kg) PER LINE APPROX. WEIGHT = 1.85 LBS. PER FT. (2.75 kg/m)					
AUXILIARY LINE: 7/8" (22.2 mm) - 6 X 25 FILLER WIRE, EXTRA IMPROVED PLOW STEEL, REGULAR LAY, IWRC. MINIMUM BREAKING STRENGTH 79,600 LBS. (36 100 kg) APPROX. WEIGHT = 1.42 LBS. PER FT. (2.11 kg/m)					
MAXIMUM LOAD ON REAR AUXILIARY DRUM IS 20,000 LBS. (9 070 kg).					

MAXIMUM SPOOLING CAPACITIES			
RIGHT FRONT DRUM; (HOIST LINE)	1" (25.4 mm) WIRE ROPE - 8 LAYERS -	835' (255m)	EQUAL WIDTH DRUM
		1,039' (317m)	WIDE DRUM
		855' (261m)	WIDE DRUM WITH POWER LOWERING
LEFT FRONT DRUM; (WHIP LINE)	1" (25.4 mm) WIRE ROPE - 4 LAYERS -	502' (153m)	EQUAL WIDTH DRUM WITH
	7 LAYERS -	661' (201m)	27" (.7m) DIA. LAGGING
			NARROW DRUM WITH
			21" (.5m) DIA. LAGGING
REAR AUXILIARY DRUM; (AUXILIARY LINE)	7/8" (22.2 mm) WIRE ROPE - 3 LAYERS -	542' (165m)	
		504' (154m)	WITH RATCHET RING
12' (4m) IS DEDUCTED FROM MAXIMUM SPOOLING CAPACITIES FOR 2 DEAD WRAPS PER DRUM OR LAGGING.			

REFER TO DRUM AND LAGGING CHART NO. 6106.

CHART NO. 4899, 1-9-89/GA