

MANITOWOC ENGINEERING CO.

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



WIRE ROPE SPECIFICATIONS

M-1200

LIFT CRANE - JIB NO. 49A-44 WITH HEAVY LIFT TOP
ON BOOM NO. 75A

WIRE ROPE LENGTHS				
BOOM AND JIB LENGTH		HOIST LINE REAR RINGER DRUM		MAXIMUM PARTS OF LINE
FT.	METERS	FT.	METERS	
250	76.2	4400	1341	16
270	82.3	4200	1280	14
275	83.8	4850	1478	16
290	88.4	3900	1189	12
295	89.9	4550	1387	14
300	91.4	4950	1509	15
310	94.5	3800	1158	11
315	96.0	4200	1280	12
320	97.5	4950	1509	14
325	99.1	5350	1631	15
330	100.6	3400	1036	9
335	102.1	3800	1158	10
340	103.6	4200	1280	11
345	105.2	5300	1615	14
350	106.7	5750	1753	15
355	108.2	3650	1113	9
360	109.7	4050	1234	10
365	111.3	4500	1372	11
370	112.8	5650	1722	14
375	114.3	6150	1875	15
380	115.8	3900	1189	9
385	117.3	4300	1311	10
390	118.9	4800	1463	11
395	120.4	5650	1722	13
400	121.9	6550	1996	15
405	123.4	4150	1265	9
410	125.0	4600	1402	10
415	126.5	5100	1554	11
420	128.0	6000	1829	13
425	129.5	6950	2118	15
430	131.1	4400	1341	9
435	132.6	4850	1478	10
440	134.1	5400	1646	11
445	135.6	3650	1113	7
450	137.2	6000	1829	12
455	138.7	4650	1417	9
460	140.2	5150	1570	10
465	141.7	3300	1006	6
470	143.3	3850	1173	7
475	144.8	4350	1326	8
490	149.4	3500	1067	6
495	150.9	4050	1234	7
515	157.0	3650	1113	6

NOTE: ABOVE HOIST LINE LENGTHS WILL ALLOW HOOK TO TOUCH GROUND. WHEN BLOCK TRAVEL BELOW GROUND 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 GROUND IS REQUIRED. PARTS OF LINE AND WIRE ROPE LENGTHS ARE BASED ON MAXIMUM CAPACITY RATING AVAILABLE FOR BOOM AND JIB LENGTH COMBINATIONS.

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HOIST REEVING FOR MAIN LOAD BLOCK								
NO. PARTS OF LINE	1	2	3	4	5	6	7	8
MAXIMUM LOAD-LBS.	30,000	60,000	90,000	120,000	150,000	180,000	210,000	240,000
MAXIMUM LOAD-kg	13 610	27 220	40 820	54 430	68 040	81 650	95 250	108 860
NO. PARTS OF LINE	9	10	11	12	13	14	15	16
MAXIMUM LOAD-LBS.	270,000	300,000	330,000	360,000	390,000	420,000	450,000	480,000
MAXIMUM LOAD-kg	122 470	136 080	149 690	163 290	176 900	190 510	204 120	217 700

WIRE ROPE SPECIFICATIONS
HOIST LINE: 1-1/8" (28.6 mm) - PYTHON 17S24K - 1 960 N/mm ² WIRE ROPE MINIMUM BREAKING STRENGTH 161,600 LBS. (73 300 kg) MEC PART NO. 719384 APPROX. WEIGHT = 2.50 LBS. PER FT. (3.72 kg/m)
OR
1-1/8" (28.6 mm) - BRIDON DYFORM - 34LR - 1 960 N/mm ² WIRE ROPE MINIMUM BREAKING STRENGTH 154,900 LBS. (70 260 kg) MEC PART NO. 719375 APPROX. WEIGHT = 2.70 LBS. PER FT. (4.02 kg/m)

MAXIMUM SPOOLING CAPACITIES
REAR RINGER DRUM: 1-1/8" (28.6 mm) WIRE ROPE - 10 LAYERS - 6,770' (2 063m) (HOIST LINE) 7,270' (2 216m) WITH 32-1/2" (826 mm) DIA. LAGGING
26' (8m) IS DEDUCTED FROM MAXIMUM SPOOLING CAPACITIES FOR 3 DEAD WRAPS PER DRUM OR LAGGING.

REFER TO DRUM AND LAGGING CHART NO. 7684-A.