

LOAD LINE SPECIFICATIONS

4100W

TOWER CRANE — TOWER NO. 22A WITH BOOM NO. 23

4100W SERIES 1

BOOM OR BOOM AND JIB LENGTH		183 FT./55.8M TOWER LENGTH				253 FT./77.1M TOWER LENGTH			
		1 PART		2 PART		1 PART		2 PART	
FEET	METERS	FEET	METERS	FEET	METERS	FEET	METERS	FEET	METERS
110	33.5	615	187	910	277	755	230	1120	341
120	36.6	635	194	940	287	775	236	1150	351
130	39.6	655	200	970	296	795	242	1180	360
140	42.7	675	206	1000	305	815	248	1210	369
150	45.7	695	212	1030	314	835	255	1240	378
160	48.8	715	218	1060	323	855	261	1270	387
170	51.8	735	224	---	---	875	267	---	---
180	54.9	755	230	---	---	895	273	---	---
190	57.9	775	236	---	---	915	279	---	---
200	61.0	795	242	---	---	935	285	---	---
210	64.0	815	248	---	---	955	291	---	---
220	67.1	835	255	---	---	975	297	---	---
230	70.1	855	261	---	---	995	303	---	---

Wire Rope Lengths Are Given For 183' (55.8m) tower and 253' (77.1m) Tower; Deduct 10' (3.0m) + (10' (3.0m) x Parts Of Line) For Each 10' (3.0m) Reduction in Tower Height.

WIRE ROPE LENGTH FOR INTERMEDIATE FALL

TOWER LENGTH		BOOM LENGTH — FT./M					
		110-150/33.5-45.7		160/48.8		170/51.8	
		1 PART		1 PART		1 PART	
FEET	METERS	FEET	METERS	FEET	METERS	FEET	METERS
123	37.5	410	125	430	131	450	137
133	40.5	430	131	450	137	470	143
143	43.6	450	137	470	143	490	149
153	46.6	470	143	490	149	510	155
163	49.7	490	149	510	155	530	162
173	52.7	510	155	530	162	550	168
183	55.8	530	162	550	168	570	174
193	58.8	550	168	570	174	590	180
203	61.9	570	174	590	180	610	186
213	64.9	590	180	610	186	630	192
223	68.0	610	186	630	192	650	198
233	71.0	630	192	650	198	670	204
243	74.1	650	198	670	204	690	210
253	77.1	670	204	690	210	710	216

LOAD LINE: 1 1/8" (28.6mm) — 6 x 31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 130,000 lbs. (58,960 kg.). Approx. Weight Per Ft. in lbs. 2.34 (3.5 kg./m). Maximum Load = 32,500 lbs./Line (14,740 kg.). (Maximum Line Pull on Split Rear Drum = 28,300 lbs. (12,830 kg.).

WHIP LINE: 1" (25.4mm) — 6 x 25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 89,800 lbs. (40,730 kg.). Approx. Weight Per Ft. in lbs. 1.85 (2.8 kg./m). Maximum Load on Intermediate Fall = 15,000 lbs. (6,800 kg.). Maximum Load on Jib = 20,000 lbs. (9,070 kg.).

REFER TO DRUM AND LAGGING CHART NO. 6105.

Drwg. No. 5347, 8-11-80/GA