

Link-Belt® API-238A lifting crane capacities

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Boom — angle; 48" x 48" (1.22 m x 1.22 m) with boom live mast and 1 3/4" (44 mm) diameter boom pendants.

Boom tip extension — angle; 10' (3.05 m) long.

Counterweight — 47,000 lbs. (21 319 kg) "AB" only.

Main boom length	Load radius		Main boom angle	Main boom point height [Ⓞ]		Main boom pendant lengths [Ⓞ]	Permissible working loads [Ⓞ]					
							Counterweight "AB"			Counterweight "AB"		
	Feet	meters	Degree	Feet	meters		Off main boom without tip extension mounted on boom	Parts of load hoist wire rope	Off main boom with tip extension mounted on boom	Parts of load hoist wire rope		
							Lbs.	kg	Required	Lbs.	kg	Required
50' (15.24 m)	13	3.96	79.0	49' 1"	14.97	195.6	88 7	9	193.9	87 9	9	
	14	4.27	77.9	48' 11"	14.90	188.4	85 4	9	186.7	84 6	9	
	15	4.57	76.7	48' 8"	14.83	176.4	80 0	9	174.7	79 2	8	
	20	6.10	70.7	47' 3"	14.39	133.6	60 5	7	131.9	59 8	6	
	25	7.62	64.5	45' 2"	13.76	107.2	48 6	5	105.5	47 8	5	
	30	9.14	58.0	42' 5"	12.93	89.1	40 4	5	87.4	39 6	4	
	35	10.67	50.9	38' 10"	11.84	76.0	34 4	4	74.3	33 7	4	
	40	12.19	43.1	34' 2"	10.42	66.1	29 9	3	64.4	29 2	3	
	45	13.72	33.9	27' 11"	8.50	58.3	26 4	3	56.6	25 6	3	
	50	15.24	21.6	18' 5"	5.60	46.9	21 2	3	45.2	20 5	3	
53	16.31	0.0	0' 0"	0.00	26.9	12 2	2	25.2	11 4	2		
60' (18.29 m)	15	4.57	78.9	58' 11"	17.95	168.6	76 4	8	166.9	75 7	8	
	20	6.10	74.0	57' 8"	17.59	133.6	60 5	7	131.9	59 8	6	
	25	7.62	69.0	56' 0"	17.08	107.2	48 6	5	105.5	47 8	5	
	30	9.14	63.8	53' 10"	16.41	89.1	40 4	5	87.4	39 6	4	
	35	10.67	58.3	51' 1"	15.57	76.1	34 5	4	74.4	33 7	4	
	40	12.19	52.5	47' 8"	14.52	66.1	29 9	4	64.4	29 2	3	
	45	13.72	46.2	43' 4"	13.21	58.4	26 4	3	56.7	25 7	3	
	50	15.24	39.2	37' 11"	11.56	52.1	23 6	3	50.4	22 8	3	
	55	16.76	30.9	30' 10"	9.39	46.9	21 2	3	45.2	20 5	3	
	60	18.29	19.7	20' 2"	6.16	40.4	18 3	2	38.7	17 5	2	
63	19.35	0.0	0' 0"	0.00	24.1	10 9	2	22.4	10 1	2		
70' (21.34 m)	20	6.10	76.4	68' 0"	20.74	134.0	60 7	7	132.3	60 0	6	
	25	7.62	72.1	66' 8"	20.31	107.5	48 7	5	105.8	47 9	5	
	30	9.14	67.8	64' 10"	19.75	89.4	40 5	5	87.7	39 7	4	
	35	10.67	63.3	62' 6"	19.06	76.3	34 6	4	74.6	33 8	4	
	40	12.19	58.6	59' 9"	18.21	66.3	30 0	4	64.6	29 3	3	
	45	13.72	53.6	56' 5"	17.19	58.6	26 5	3	56.9	25 8	3	
	50	15.24	48.4	52' 4"	15.95	52.3	23 7	3	50.6	22 9	3	
	55	16.76	42.6	47' 5"	14.45	47.1	21 3	3	45.4	20 5	3	
	60	18.29	36.2	41' 4"	12.60	42.8	19 4	2	41.1	18 6	2	
	65	19.81	28.5	33' 5"	10.19	39.1	17 7	2	37.4	16 9	2	
70	21.34	18.2	21' 10"	6.67	34.6	15 6	2	32.9	14 9	2		
73	22.40	0.0	0' 0"	0.00	23.2	10 5	2	21.5	9 7	1		
80' (24.38 m)	20	6.10	78.1	78' 3"	23.86	129.5	58 7	6	127.8	57 9	6	
	25	7.62	74.4	77' 1"	23.49	107.3	48 6	5	105.6	47 8	5	
	30	9.14	70.7	75' 6"	23.01	89.2	40 4	5	87.5	39 6	4	
	35	10.67	66.8	73' 7"	22.42	76.1	34 5	4	74.4	33 7	4	
	40	12.19	62.9	71' 2"	21.70	66.1	29 9	4	64.4	29 2	3	
	45	13.72	58.8	68' 5"	20.85	58.4	26 4	3	56.7	25 7	3	
	50	15.24	54.5	65' 1"	19.84	52.1	23 6	3	50.4	22 8	3	
	55	16.76	49.9	61' 3"	18.66	47.0	21 3	3	45.3	20 5	3	
	60	18.29	45.1	56' 8"	17.27	42.7	19 3	2	41.0	18 5	2	
	65	19.81	39.8	51' 2"	15.60	39.0	17 6	2	37.3	16 9	2	
	70	21.34	33.8	44' 6"	13.56	35.8	16 2	2	34.1	15 4	2	
	75	22.86	26.7	35' 11"	10.94	33.0	14 9	2	31.3	14 1	2	
	80	24.38	17.0	23' 5"	7.14	30.0	13 6	2	28.3	12 8	2	
83	25.45	0.0	0' 0"	0.00	20.6	9 3	1	18.9	8 5	1		
90' (27.43 m)	20	6.10	79.4	88' 6"	26.97	115.4	52 3	6	113.7	51 5	6	
	25	7.62	76.2	87' 5"	26.64	107.0	48 5	5	105.3	47 7	5	
	30	9.14	72.9	86' 0"	26.22	88.9	40 3	5	87.2	39 5	4	
	35	10.67	69.5	84' 4"	25.70	75.9	34 4	4	74.2	33 6	4	
	40	12.19	66.1	82' 3"	25.08	65.9	29 8	4	64.2	29 1	3	
	45	13.72	62.5	79' 10"	24.34	58.2	26 3	3	56.5	25 6	3	
	50	15.24	58.9	77' 1"	23.49	51.9	23 5	3	50.2	22 7	3	
	55	16.76	55.1	73' 10"	22.50	46.8	21 2	3	45.1	20 4	3	
	60	18.29	51.1	70' 1"	21.36	42.5	19 2	2	40.8	18 5	2	
	65	19.81	46.9	65' 9"	20.03	38.8	17 5	2	37.1	16 8	2	
	70	21.34	42.4	60' 8"	18.49	35.7	16 1	2	34.0	15 4	2	
	75	22.86	37.4	54' 8"	16.66	32.9	14 9	2	31.2	14 1	2	
	80	24.38	31.8	47' 5"	14.45	30.5	13 8	2	28.8	13 0	2	
	85	25.91	25.1	38' 2"	11.64	28.3	12 8	2	26.6	12 0	2	
	90	27.43	16.0	24' 10"	7.58	26.1	11 8	2	24.4	11 0	2	
93	28.50	0.0	0' 0"	0.00	18.2	8 2	1	16.5	7 4	1		

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Main boom length	Load radius		Main boom angle	Main boom point height [Ⓞ]		Main boom pendant lengths [Ⓞ]	Permissible working loads [Ⓞ]					
							Counterweight "AB"			Counterweight "AB"		
	Feet	meters	Degree	Feet	meters		Off main boom without tip extension mounted on boom	Parts of load hoist wire rope	Off main boom with tip extension mounted on boom	Parts of load hoist wire rope		
	Lbs.	kg	Required	Lbs.	kg		Required					
100' (30.48 m)	25	7.62	77.6	97' 8"	29.77	80' (24.38 m)	96.8	439	5	95.1	431	5
	30	9.14	74.6	96' 5"	29.39	88.6	401	5	86.9	394	4	
	35	10.67	71.6	94' 11"	28.93	75.6	342	4	73.9	335	4	
	40	12.19	68.6	93' 1"	28.38	65.8	298	3	64.1	290	3	
	45	13.72	65.5	91' 0"	27.73	58.0	263	3	56.3	255	3	
	50	15.24	62.3	88' 6"	26.99	51.7	234	3	50.0	226	3	
	55	16.76	59.0	85' 9"	26.13	46.5	210	3	44.8	203	3	
	60	18.29	55.6	82' 6"	25.15	42.3	191	2	40.6	184	2	
	65	19.81	52.0	78' 10"	24.04	38.6	175	2	36.9	167	2	
	70	21.34	48.3	74' 8"	22.77	35.5	161	2	33.8	153	2	
	75	22.86	44.4	69' 11"	21.31	32.7	148	2	31.0	140	2	
	80	24.38	40.1	64' 5"	19.63	30.3	137	2	28.6	129	2	
	85	25.91	35.4	57' 11"	17.67	28.1	127	2	26.4	119	2	
	90	27.43	30.1	50' 2"	15.30	26.2	118	2	24.5	111	2	
95	28.96	23.8	40' 4"	12.30	24.5	111	2	22.8	103	2		
100	30.48	15.2	26' 3"	8.00	22.9	103	2	21.2	96	1		
103	31.55	0.0	0' 0"	0.00	16.1	73	1	14.4	65	1		
110' (33.53 m)	25	7.62	78.7	107' 11"	32.88	90' (27.43 m)	85.1	386	4	83.4	378	4
	30	9.14	76.1	106' 9"	32.54	79.3	359	4	77.6	351	4	
	35	10.67	73.4	105' 5"	32.13	72.0	326	4	70.3	318	4	
	40	12.19	70.6	103' 9"	31.63	64.2	291	3	62.5	283	3	
	45	13.72	67.8	101' 11"	31.05	57.7	261	3	56.0	254	3	
	50	15.24	65.0	99' 8"	30.39	51.4	233	3	49.7	225	3	
	55	16.76	62.1	97' 3"	29.63	46.2	209	3	44.5	201	3	
	60	18.29	59.1	94' 5"	28.77	42.0	190	2	40.3	182	2	
	65	19.81	56.0	91' 3"	27.80	38.4	174	2	36.7	166	2	
	70	21.34	52.8	87' 8"	26.71	35.2	159	2	33.5	151	2	
	75	22.86	49.5	83' 7"	25.48	32.5	147	2	30.8	139	2	
	80	24.38	45.9	79' 1"	24.10	30.0	136	2	28.3	128	2	
	85	25.91	42.2	73' 11"	22.52	27.9	126	2	26.2	118	2	
	90	27.43	38.2	68' 0"	20.72	26.0	117	2	24.3	110	2	
95	28.96	33.7	61' 1"	18.61	24.3	110	2	22.6	102	2		
100	30.48	28.7	52' 10"	16.10	22.8	103	2	21.1	95	1		
105	32.00	22.7	42' 5"	12.93	21.4	97	1	19.7	89	1		
110	33.53	14.5	27' 6"	8.39	20.1	91	1	18.4	83	1		
113	34.59	0.0	0' 0"	0.00	14.2	64	1	12.5	56	1		
120' (36.58 m)	30	9.14	77.2	117' 1"	35.68	100' (30.48 m)	71.1	322	4	69.4	314	4
	35	10.67	74.8	115' 10"	35.30	63.4	287	3	61.7	279	3	
	40	12.19	72.3	114' 4"	34.85	57.8	262	3	56.1	254	3	
	45	13.72	69.8	112' 7"	34.32	52.7	239	3	51.0	231	3	
	50	15.24	67.2	110' 8"	33.72	48.1	218	3	46.4	210	3	
	55	16.76	64.6	108' 5"	33.04	42.6	193	2	40.9	185	2	
	60	18.29	61.9	105' 11"	32.27	39.1	177	2	37.4	169	2	
	65	19.81	59.2	103' 1"	31.41	36.0	163	2	34.3	155	2	
	70	21.34	56.3	99' 11"	30.45	33.2	150	2	31.5	142	2	
	75	22.86	53.4	96' 5"	29.38	30.6	138	2	28.9	131	2	
	80	24.38	50.4	92' 6"	28.18	28.3	128	2	26.6	120	2	
	85	25.91	47.2	88' 1"	26.85	26.3	119	2	24.6	111	2	
	90	27.43	43.9	83' 2"	25.35	24.4	110	2	22.7	102	2	
	95	28.96	40.3	77' 8"	23.67	21.4	97	1	19.7	89	1	
100	30.48	36.5	71' 4"	21.74	20.0	90	1	18.3	83	1		
105	32.00	32.2	64' 0"	19.51	18.8	85	1	17.1	77	1		
110	33.53	27.4	55' 4"	16.86	17.6	79	1	15.9	72	1		
115	35.05	21.7	44' 4"	13.52	16.5	74	1	14.8	67	1		
120	36.58	13.9	28' 9"	8.77	15.6	70	1	13.9	63	1		
123	37.64	0.0	0' 0"	0.00	12.6	57	1	10.9	49	1		
130' (39.62 m)	30	9.14	78.2	127' 3"	38.80	110' (33.53 m)	60.6	274	3	58.9	267	3
	35	10.67	76.0	126' 2"	38.45	55.8	253	3	54.1	245	3	
	40	12.19	73.7	124' 9"	38.03	50.6	229	3	48.9	221	3	
	45	13.72	71.4	123' 2"	37.55	46.3	210	3	44.6	202	3	
	50	15.24	69.0	121' 5"	37.01	41.2	186	2	39.5	179	2	
	55	16.76	66.7	119' 4"	36.39	37.3	169	2	35.6	161	2	
	60	18.29	64.2	117' 1"	35.69	34.4	156	2	32.7	148	2	
	65	19.81	61.8	114' 7"	34.91	31.2	141	2	29.5	133	2	
70	21.34	59.2	111' 9"	34.05	28.7	130	2	27.0	122	2		
75	22.86	56.6	108' 7"	33.10	26.5	120	2	24.8	112	2		
80	24.38	54.0	105' 1"	32.04	24.4	110	2	22.7	102	2		

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Main boom length	Load radius		Main boom angle	Main boom point height [Ⓞ]		Main boom pendant lengths [Ⓟ]	Permissible working loads [Ⓢ]					
							Counterweight "AB"			Counterweight "AB"		
	Feet	meters	Degree	Feet	meters		Off main boom without tip extension mounted on boom		Parts of load hoist wire rope Required	Off main boom with tip extension mounted on boom		Parts of load hoist wire rope Required
							Lbs.	kg		Lbs.	kg	
130' (39.62 m)	85	25.91	51.2	101' 3"	30.87	110' (33.53 m)	21.4	9.7	1	19.7	8.9	1
	90	27.43	48.3	97' 1"	29.58		20.0	9.0	1	18.3	8.3	1
	95	28.96	45.3	92' 4"	28.15		18.4	8.3	1	16.7	7.5	1
	100	30.48	42.1	87' 1"	26.55		17.0	7.7	1	15.3	6.9	1
	105	32.00	38.7	81' 3"	24.76		15.9	7.2	1	14.2	6.4	1
	110	33.53	35.0	74' 7"	22.73		14.9	6.7	1	13.2	5.9	1
	115	35.05	30.9	66' 10"	20.38		14.0	6.3	1	12.3	5.5	1
	120	36.58	26.3	57' 8"	17.59		13.1	5.9	1	11.4	5.1	1
	125	38.10	20.8	46' 3"	14.10		12.3	5.5	1	10.6	4.8	1
	130	39.62	13.3	30' 0"	9.14		11.5	5.2	1	9.8	4.4	1
133	40.69	0.0	0' 0"	0.00	11.0	4.9	1	9.3	4.2	1		
140' (42.67 m)	30	9.14	79.1	137' 6"	41.90	120' (36.58 m)	51.9	23.5	3	50.2	22.7	3
	35	10.67	77.0	136' 5"	41.58		47.9	21.7	3	46.2	20.9	3
	40	12.19	74.9	135' 2"	41.20		41.9	19.0	3	40.2	18.2	2
	45	13.72	72.8	133' 9"	40.76		38.6	17.5	2	36.9	16.7	2
	50	15.24	70.6	132' 1"	40.25		35.0	15.8	2	33.3	15.1	2
	55	16.76	68.4	130' 2"	39.68		32.2	14.6	2	30.5	13.8	2
	60	18.29	66.2	128' 1"	39.05		29.2	13.2	2	27.5	12.4	2
	65	19.81	63.9	125' 9"	38.34		26.9	12.2	2	25.2	11.4	2
	70	21.34	61.6	123' 2"	37.55		24.4	11.0	2	22.7	10.2	2
	75	22.86	59.3	120' 5"	36.69		21.3	9.6	1	19.6	8.8	1
	80	24.38	56.9	117' 3"	35.74		19.7	8.9	1	18.0	8.1	1
	85	25.91	54.4	113' 10"	34.70		18.1	8.2	1	16.4	7.4	1
	90	27.43	51.8	110' 1"	33.56		17.0	7.7	1	15.3	6.9	1
	95	28.96	49.2	106' 0"	32.30		15.7	7.1	1	14.0	6.3	1
	100	30.48	46.4	101' 5"	30.92		14.4	6.5	1	12.7	5.7	1
	105	32.00	43.5	96' 5"	29.39		13.5	6.1	1	11.8	5.3	1
	110	33.53	40.5	90' 11"	27.70		12.7	5.7	1	11.0	4.9	1
	115	35.05	37.2	84' 8"	25.81		11.9	5.3	1	10.2	4.6	1
	120	36.58	33.7	77' 8"	23.67		11.1	5.0	1	9.4	4.2	1
	125	38.10	29.8	69' 7"	21.20		10.4	4.7	1	8.7	3.9	1
130	39.62	25.4	60' 0"	18.29	9.8	4.4	1	8.1	3.6	1		
135	41.15	20.1	48' 1"	14.65	9.2	4.1	1	7.5	3.4	1		
140	42.67	12.8	31' 1"	9.48	8.6	3.9	1	6.9	3.1	1		
143	43.74	0.0	0' 0"	0.00	8.5	3.8	1	6.8	3.0	1		
150' (45.72 m)	35	10.67	77.9	146' 8"	44.70	130' (39.62 m)	39.7	18.0	2	38.0	17.2	2
	40	12.19	75.9	145' 6"	44.35		36.3	16.4	2	34.6	15.6	2
	45	13.72	73.9	144' 2"	43.94		33.2	15.0	2	31.5	14.2	2
	50	15.24	71.9	142' 7"	43.47		30.0	13.6	2	28.3	12.8	2
	55	16.76	69.9	140' 11"	42.94		27.7	12.5	2	26.0	11.7	2
	60	18.29	67.9	139' 0"	42.36		25.1	11.3	2	23.4	10.6	2
	65	19.81	65.8	136' 10"	41.70		21.6	9.7	1	19.9	9.0	1
	70	21.34	63.7	134' 6"	40.98		19.9	9.0	1	18.2	8.2	1
	75	22.86	61.5	131' 10"	40.19		18.3	8.3	1	16.6	7.5	1
	80	24.38	59.3	129' 0"	39.33		16.9	7.6	1	15.2	6.8	1
	85	25.91	57.1	125' 11"	38.39		15.6	7.0	1	13.9	6.3	1
	90	27.43	54.8	122' 7"	37.36		14.6	6.6	1	12.9	5.8	1
	95	28.96	52.4	118' 10"	36.23		13.4	6.0	1	11.7	5.3	1
	100	30.48	50.0	114' 10"	35.01		12.4	5.6	1	10.7	4.8	1
	105	32.00	47.4	110' 5"	33.67		11.6	5.2	1	9.9	4.4	1
	110	33.53	44.8	105' 8"	32.20		10.9	4.9	1	9.2	4.1	1
	115	35.05	42.0	100' 4"	30.59		10.0	4.5	1	8.3	3.7	1
	120	36.58	39.0	94' 6"	28.80		9.4	4.2	1	7.7	3.4	1
	125	38.10	35.9	88' 0"	26.81		8.8	3.9	1	7.1	3.2	1
	130	39.62	32.5	80' 7"	24.57		8.3	3.7	1	6.6	2.9	1
135	41.15	28.8	72' 2"	22.00	7.7	3.4	1	6.0	2.7	1		
140	42.67	24.5	62' 2"	18.96	7.2	3.2	1	5.5	2.4	1		
145	44.20	19.4	49' 9"	15.18	6.9	3.1	1	5.2	2.3	1		
150	45.72	12.4	32' 3"	9.82	6.5	2.9	1	4.8	2.1	1		
153	46.79	0.0	0' 0"	0.00	6.4	2.9	1	4.7	2.1	1		

Ⓞ Measured vertically from center of main boom head sheave to a line horizontal with boom foot pin center.

Ⓟ Required pendant lengths — with or without boom tip extension.

Ⓢ Total suspended load — including load, hook block and/or other load handling gear.

API-238A lifting crane capacities

Refer to Notes page 6.

Counterweight — 47,000 lbs. (21 319 kg) "AB" only.

Boom tip extension — angle; 10' (3.05 m) long.

Boom — angle; 48" x 48" (1.22 m x 1.22 m) with boom live mast and 1 3/4" (44 mm) diameter boom pendants.

Main boom length	Load radius		Main boom angle	Boom tip extension point height [⊙]		Permissible working loads [⊙] off boom tip extension		
	Feet	meters		Feet	meters	Pounds	kilograms	
								Capacities with single part load hoist rope
90' (27.43 m)	60	18.29	57.0	81' 6"	24.84	10.0	4.5	
	65	19.81	53.4	77' 9"	23.71	10.0	4.5	
	70	21.34	49.6	73' 8"	22.46	10.0	4.5	
	75	22.86	45.6	68' 10"	21.00	10.0	4.5	
	80	24.38	41.3	63' 3"	19.29	10.0	4.5	
	85	25.91	36.5	56' 9"	17.31	10.0	4.5	
	90	27.43	31.1	49' 0"	14.93	10.0	4.5	
	93	28.50	26.7	42' 3"	12.89	10.0	4.5	
	30	9.14	77.5	105' 7"	32.18	10.0	4.5	
	35	10.67	74.3	104' 3"	31.79	10.0	4.5	
40	12.19	72.0	102' 8"	31.30	10.0	4.5		
45	13.72	69.2	100' 9"	30.72	10.0	4.5		
50	15.24	66.4	98' 7"	30.05	10.0	4.5		
55	16.76	63.4	96' 2"	29.32	10.0	4.5		
60	18.29	60.4	93' 4"	28.46	10.0	4.5		
65	19.81	57.3	90' 2"	27.49	10.0	4.5		
70	21.34	54.0	86' 7"	26.42	10.0	4.5		
75	22.86	50.6	82' 7"	25.17	10.0	4.5		
80	24.38	47.1	78' 0"	23.77	10.0	4.5		
85	25.91	43.3	72' 9"	22.18	10.0	4.5		
90	27.43	39.2	66' 10"	20.39	10.0	4.5		
95	28.96	34.7	59' 10"	18.25	10.0	4.5		
100	30.48	29.5	51' 7"	15.72	10.0	4.5		
103	31.55	25.4	44' 4"	13.53	10.0	4.5		
100' (30.48 m)	30	9.14	78.6	115' 10"	35.32	10.0	4.5	
	35	10.67	76.1	114' 8"	34.96	10.0	4.5	
	40	12.19	73.6	113' 2"	34.50	10.0	4.5	
	45	13.72	70.0	111' 6"	33.98	10.0	4.5	
	50	15.24	68.5	109' 7"	33.40	10.0	4.5	
	55	16.76	65.8	107' 3"	32.70	10.0	4.5	
	60	18.29	63.1	104' 8"	31.94	10.0	4.5	
	65	19.81	60.4	102' 0"	31.08	10.0	4.5	
	70	21.34	57.5	98' 10"	30.14	10.0	4.5	
	75	22.86	54.6	95' 4"	29.07	10.0	4.5	
80	24.38	51.5	91' 4"	27.85	10.0	4.5		
85	25.91	48.3	87' 1"	26.54	10.0	4.5		
90	27.43	44.9	82' 1"	25.02	10.0	4.5		
95	28.96	41.3	76' 7"	23.37	10.0	4.5		
100	30.48	37.4	70' 2"	21.39	10.0	4.5		
105	32.00	33.1	62' 9"	19.14	10.0	4.5		
110	33.53	28.2	54' 0"	16.45	10.0	4.5		
113	34.59	24.2	46' 6"	14.17	10.0	4.5		
110' (33.53 m)	30	9.14	79.5	126' 1"	38.43	10.0	4.5	
	35	10.67	77.2	125' 0"	38.10	10.0	4.5	
	40	12.19	74.9	123' 8"	37.70	10.0	4.5	
	45	13.72	72.6	122' 1"	37.21	10.0	4.5	
	50	15.24	70.2	120' 3"	36.66	10.0	4.5	
	55	16.76	67.8	118' 3"	36.05	10.0	4.5	
	60	18.29	65.4	116' 0"	35.35	10.0	4.5	
	65	19.81	62.9	113' 6"	34.59	10.0	4.5	
	120' (36.58 m)	30	9.14	80.0	137' 6"	41.27	10.0	4.5
		35	10.67	77.7	136' 3"	40.94	10.0	4.5
40		12.19	75.4	135' 0"	40.61	10.0	4.5	
45		13.72	73.1	133' 7"	40.28	10.0	4.5	
50		15.24	70.8	132' 4"	39.95	10.0	4.5	
55		16.76	68.5	131' 1"	39.62	10.0	4.5	
60		18.29	66.2	129' 8"	39.29	10.0	4.5	
65		19.81	63.9	128' 5"	38.96	10.0	4.5	
70		21.34	61.6	127' 2"	38.63	10.0	4.5	
75		22.86	59.3	125' 9"	38.30	10.0	4.5	

(continued)

Main boom length	Load radius		Main boom angle	Boom tip extension point height [⊙]		Permissible working loads [⊙] off boom tip extension		
	Feet	meters		Feet	meters	Pounds	kilograms	
								Capacities with single part load hoist rope
50' (15.24 m)	20	6.10	76.7	56' 7"	17.25	10.0	4.5	
	25	7.62	71.6	55' 0"	16.76	10.0	4.5	
	30	9.14	66.3	52' 9"	16.03	10.0	4.5	
	35	10.67	60.7	50' 1"	15.07	10.0	4.5	
	40	12.19	54.8	46' 7"	14.20	10.0	4.5	
	45	13.72	48.4	42' 3"	12.89	10.0	4.5	
	50	15.24	41.2	36' 10"	11.24	10.0	4.5	
	53	16.31	35.3	32' 1"	9.78	10.0	4.5	
	20	6.10	78.7	66' 10"	20.39	10.0	4.5	
	25	7.62	74.4	65' 6"	19.96	10.0	4.5	
30	9.14	70.0	63' 8"	19.41	10.0	4.5		
35	10.67	65.4	61' 6"	18.74	10.0	4.5		
40	12.19	60.6	58' 8"	17.89	10.0	4.5		
45	13.72	55.6	55' 4"	16.88	10.0	4.5		
50	15.24	50.2	51' 3"	15.63	10.0	4.5		
55	16.76	44.4	46' 4"	14.14	10.0	4.5		
60	18.29	37.8	40' 2"	12.25	10.0	4.5		
63	19.35	32.4	34' 10"	10.63	10.0	4.5		
60' (18.29 m)	25	7.62	76.4	76' 0"	23.16	10.0	4.5	
	30	9.14	72.6	74' 4"	22.67	10.0	4.5	
	35	10.67	68.7	72' 6"	22.09	10.0	4.5	
	40	12.19	64.7	70' 2"	21.39	10.0	4.5	
	45	13.72	60.5	67' 4"	20.54	10.0	4.5	
	50	15.24	56.2	64' 1"	19.53	10.0	4.5	
	55	16.76	51.6	60' 2"	18.34	10.0	4.5	
	60	18.29	46.6	55' 7"	16.94	10.0	4.5	
	65	19.81	41.2	50' 1"	15.27	10.0	4.5	
	70	21.34	35.1	43' 3"	13.19	10.0	4.5	
73	22.40	30.1	37' 6"	11.43	10.0	4.5		
70' (21.34 m)	25	7.62	78.0	86' 3"	26.30	10.0	4.5	
	30	9.14	74.7	84' 10"	25.87	10.0	4.5	
	35	10.67	71.2	83' 2"	25.35	10.0	4.5	
	40	12.19	67.8	81' 2"	24.74	10.0	4.5	
	45	13.72	64.2	78' 9"	24.01	10.0	4.5	
	50	15.24	60.5	76' 0"	23.16	10.0	4.5	
	55	16.76	56.6	72' 9"	22.18	10.0	4.5	
	60	18.29	52.6	69' 0"	21.03	10.0	4.5	
	65	19.81	48.3	64' 8"	19.72	10.0	4.5	
	70	21.34	43.7	59' 7"	18.16	10.0	4.5	
75	22.86	38.7	53' 7"	16.33	10.0	4.5		
80	24.38	32.9	46' 2"	14.08	10.0	4.5		
83	25.45	28.3	40' 0"	12.19	10.0	4.5		
80' (24.38 m)	25	7.62	79.2	96' 6"	29.41	10.0	4.5	
	30	9.14	76.3	95' 3"	29.04	10.0	4.5	
	35	10.67	73.2	93' 9"	28.59	10.0	4.5	
	40	12.19	70.1	92' 0"	28.04	10.0	4.5	
	45	13.72	67.0	89' 10"	27.40	10.0	4.5	
	50	15.24	63.8	87' 6"	26.67	10.0	4.5	
	55	16.76	60.0	84' 8"	25.81	10.0	4.5	
	90' (27.43 m)	25	7.62	80.0	107' 6"	34.59	10.0	4.5
		30	9.14	76.7	106' 3"	34.26	10.0	4.5
		35	10.67	73.4	104' 9"	33.93	10.0	4.5
40		12.19	70.0	102' 5"	33.60	10.0	4.5	
45		13.72	66.6	100' 1"	33.27	10.0	4.5	
50		15.24	63.2	97' 7"	32.94	10.0	4.5	
55		16.76	59.8	95' 3"	32.61	10.0	4.5	
60		18.29	56.4	92' 9"	32.28	10.0	4.5	
65		19.81	53.0	90' 5"	31.95	10.0	4.5	
70		21.34	49.6	88' 1"	31.62	10.0	4.5	

⊙ — Refer to page 5.

API-238A lifting crane capacities

Refer to Notes page 6.

Main boom length	Load radius		Main boom angle	Boom tip extension point height [Ⓞ]		Permissible working loads [Ⓞ] off boom tip extension	
	Feet	meters		Feet	meters	Counterweight "A" or "AB"	Capacities with single part load hoist rope
140' (42.67 m)	80	24.38	60.3	128' 0"	39.07	10.0	4.5
	85	25.91	58.0	124' 10"	38.06	10.0	4.5
	90	27.43	55.7	121' 6"	37.03	10.0	4.5
	95	28.96	53.3	117' 9"	35.90	10.0	4.5
	100	30.48	50.8	113' 9"	34.68	10.0	4.5
	105	32.00	48.3	109' 4"	33.34	10.0	4.5
	110	33.53	45.0	104' 7"	31.88	10.0	4.5
	115	35.05	42.8	99' 3"	30.26	10.0	4.5
	120	36.58	39.8	93' 4"	28.46	9.4	4.2
	125	38.10	36.6	86' 9"	26.45	8.7	3.9
	130	39.62	33.2	79' 4"	24.20	8.1	3.6
	135	41.15	29.4	70' 10"	21.61	7.5	3.4
	140	42.67	25.0	60' 9"	18.53	6.9	3.1
	143	43.74	21.5	52' 3"	15.94	6.8	3.0
150' (45.72 m)	35	10.67	79.7	155' 9"	47.45	10.0	4.5
	40	12.19	77.8	154' 7"	47.12	10.0	4.5
	45	13.72	76.0	153' 4"	46.75	10.0	4.5
	50	15.24	74.1	152' 0"	46.32	10.0	4.5
	55	16.76	72.2	150' 4"	45.84	10.0	4.5
	60	18.29	70.3	148' 7"	45.29	10.0	4.5
	65	19.81	68.3	146' 7"	44.68	10.0	4.5
	70	21.34	66.4	144' 6"	44.04	10.0	4.5
	75	22.86	64.4	142' 1"	43.31	10.0	4.5
	80	24.38	62.3	139' 6"	42.51	10.0	4.5
	85	25.91	60.3	136' 8"	41.66	10.0	4.5
	90	27.43	58.2	133' 7"	40.72	10.0	4.5
	95	28.96	56.0	130' 2"	39.68	10.0	4.5
	100	30.48	53.7	126' 7"	38.58	10.0	4.5
105	32.00	51.4	122' 8"	37.39	9.9	4.4	
110	33.53	49.1	118' 4"	36.08	9.2	4.1	
115	35.05	46.6	113' 8"	34.65	8.3	3.7	
120	36.58	44.0	108' 7"	33.10	7.7	3.4	
125	38.10	41.3	103' 0"	31.39	7.1	3.2	
130	39.62	38.5	96' 10"	29.53	6.6	2.9	
135	41.15	35.4	90' 0"	27.43	6.0	2.7	
140	42.67	32.1	82' 3"	25.08	5.5	2.4	
145	44.20	28.4	73' 4"	22.37	5.2	2.3	
150	45.72	24.2	62' 10"	19.17	4.8	2.1	
153	46.79	20.8	54' 1"	16.48	4.7	2.1	

Main boom length	Load radius		Main boom angle	Boom tip extension point height [Ⓞ]		Permissible working loads [Ⓞ] off boom tip extension	
	Feet	meters		Feet	meters	Counterweight "A" or "AB"	Capacities with single part load hoist rope
120' (36.58 m)	70	21.34	60.3	110' 8"	33.74	10.0	4.5
	75	22.86	57.7	107' 6"	32.76	10.0	4.5
	80	24.38	55.0	104' 1"	31.72	10.0	4.5
	85	25.91	52.2	100' 3"	30.57	10.0	4.5
	90	27.43	49.3	96' 0"	29.26	10.0	4.5
	95	28.96	46.2	91' 3"	27.82	10.0	4.5
	100	30.48	43.0	86' 1"	26.24	10.0	4.5
	105	32.00	39.5	80' 1"	24.41	10.0	4.5
	110	33.53	35.8	73' 4"	22.37	10.0	4.5
	115	35.05	31.7	65' 7"	20.02	10.0	4.5
	120	36.58	27.0	56' 4"	17.19	10.0	4.5
	123	37.64	23.2	48' 6"	14.78	10.0	4.5
	135	41.23	18.2	35' 3"	11.23	10.0	4.5
	140	42.67	16.0	30' 0"	10.00	10.0	4.5
130' (39.62 m)	40	12.19	76.0	134' 0"	40.84	10.0	4.5
	45	13.72	73.9	132' 7"	40.44	10.0	4.5
	50	15.24	71.7	131' 0"	39.92	10.0	4.5
	55	16.76	69.5	129' 1"	39.34	10.0	4.5
	60	18.29	67.3	127' 0"	38.70	10.0	4.5
	65	19.81	65.0	124' 8"	38.00	10.0	4.5
	70	21.34	62.7	122' 2"	37.24	10.0	4.5
	75	22.86	60.3	119' 3"	36.36	10.0	4.5
	80	24.38	57.9	116' 2"	35.41	10.0	4.5
	85	25.91	55.4	112' 9"	34.38	10.0	4.5
	90	27.43	52.8	109' 1"	33.25	10.0	4.5
	95	28.96	50.1	104' 10"	31.97	10.0	4.5
	100	30.48	47.3	100' 4"	30.60	10.0	4.5
	105	32.00	44.4	95' 4"	29.07	10.0	4.5
110	33.53	41.3	89' 9"	27.37	10.0	4.5	
115	35.05	38.0	83' 7"	25.48	10.0	4.5	
120	36.58	34.0	76' 6"	23.31	10.0	4.5	
125	38.10	30.5	68' 3"	20.81	10.0	4.5	
130	39.62	26.0	58' 7"	17.86	9.8	4.4	
133	40.69	22.3	50' 4"	15.36	9.3	4.2	
145	44.34	16.0	35' 6"	11.23	10.0	4.5	
144	44.01	14.0	34' 0"	10.00	10.0	4.5	
143	43.58	13.0	33' 0"	9.32	10.0	4.5	
141	43.12	12.0	32' 0"	8.64	10.0	4.5	
139	42.61	11.0	31' 0"	8.00	10.0	4.5	
137	42.03	10.0	30' 0"	7.40	10.0	4.5	
135	41.39	9.0	29' 0"	6.84	10.0	4.5	
133	40.66	8.0	28' 0"	6.32	10.0	4.5	
130	39.86	7.0	27' 0"	5.84	10.0	4.5	

[Ⓞ]Total suspended load — including load, hook block, and/or other load handling gear.
[Ⓢ]Measured vertically from center of boom tip extension head sheave to a line horizontal with boom foot pin center.

API-238A lifting crane capacities

Notes — lifting crane capacities

1. Capacities shown are in thousand pound and thousand kilogram units and represent maximum allowable loads based on strength capabilities of the machine.
2. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce permissible working load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of hook block, weighted ball/hook, sling, spreader bar, or other suspended gear.
3. Main boom tip shall not be more than 10° below boomfeet.
4. Wire rope used to handle each rated load must be 1" (25 mm) dia. with minimum breaking strength of 103,400 lbs. (46 902 kg).
5. The 30' (9.14 m) boom live mast must be used for all capacities on this chart.
6. Boom angles shown do not apply when handling loads on boom tip extension. When lifting loads on the boom tip extension, load radius must be known — do not determine load radius by boom angle.
7. Rated loads are in compliance with API "Specifications for the load rating of offshore cranes."
8. FMC Corporation assumes no responsibility for proper design and construction of the supporting structure to withstand the loadings imposed by the machine — nor proper attachment of the turntable bearing mounting base on the supporting structure.
9. These capacities apply to the machine only as originally manufactured and normally equipped by FMC Corporation, Cable Crane & Excavator Division.

We are constantly improving our products and therefore reserve the right to change designs and specifications.



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