



Plants in: Ontario, Canada • Milan, Italy • Queretaro, Mexico

This machine as manufactured conforms with the requirements of: ANSI B30.5-1968 and, when equipped with suitable load and angle indicating devices, conforms with THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS as listed in the: FEDERAL REGISTER Vol. 37 Nos. 202 and 243 (OSHA)

# API-218 CRANE CAPACITIES

CRF 8489-9-73 — TABLE A

Refer to ALL notes on next page.

Based on std. revolving crane upper mounted on appropriate supporting structure; equipped with 21,000# counterweight "A", boom live mast, 1 3/4" dia. boom pendants, and 48" x 48" angle boom with open throat top section.

Length	BOOM			Rated Load ①
	Radius (Feet)	Angle (Degree)	Point Height "W"	
50'	13	78.0	49' 1"	136,700
	14	77.9	48' 10"	124,900
	15	76.7	48' 8"	115,100
	20	70.7	47' 2"	82,200
	25	64.5	45' 2"	63,700
	30	58.0	42' 5"	51,800
	35	50.9	38' 10"	43,600
	40	43.1	34' 2"	37,500
	45	33.9	27' 11"	32,800
	50	21.6	18' 4"	28,300
54	0.0	0' 0"	16,400	
60'	15	78.9	58' 11"	114,900
	20	74.0	57' 8"	82,100
	25	69.0	56' 0"	63,600
	30	63.8	53' 10"	51,700
	35	58.3	51' 1"	43,500
	40	52.5	47' 7"	37,400
	45	46.2	43' 4"	32,700
	50	39.2	37' 11"	29,000
	55	30.9	30' 9"	26,000
	60	19.7	20' 2"	23,500
64	0.0	0' 0"	14,200	
70'	20	76.4	68' 0"	81,900
	25	72.1	66' 7"	63,400
	30	67.8	64' 9"	51,600
	35	63.3	62' 6"	43,300
	40	58.6	59' 9"	37,200
	45	53.6	56' 4"	32,600
	50	48.4	52' 4"	28,800
	55	42.6	47' 5"	25,800
	60	36.2	41' 4"	23,300
	65	28.5	33' 5"	21,300
70	18.2	21' 10"	19,500	
74	0.0	0' 0"	12,100	
80'	20	78.1	78' 4"	81,700
	25	74.4	77' 1"	63,200
	30	70.7	75' 6"	51,400
	35	66.8	73' 6"	43,100
	40	62.9	71' 2"	37,000
	45	58.8	68' 5"	32,400
	50	54.5	65' 1"	28,700
	55	49.9	61' 2"	25,700
	60	45.1	56' 8"	23,200
	65	39.8	51' 2"	21,100
70	33.8	44' 6"	19,300	
75	26.7	35' 11"	17,800	
80	17.0	23' 5"	16,400	
84	0.0	0' 0"	10,400	
90'	20	79.4	88' 5"	81,500
	25	76.2	87' 5"	63,000
	30	72.9	86' 0"	51,200
	35	69.5	84' 4"	42,900
	40	66.1	82' 3"	36,800
	45	62.5	79' 10"	32,200
	50	58.9	77' 1"	28,500
	55	55.1	73' 10"	25,500
	60	51.1	70' 1"	23,000
	65	46.9	65' 8"	20,900
70	42.4	60' 8"	19,200	
75	37.4	54' 8"	17,600	
80	31.8	47' 5"	16,300	
85	25.1	38' 2"	15,100	
90	16.0	24' 10"	14,100	
94	0.0	0' 0"	8,800	

Length	BOOM			Rated Load ①
	Radius (Feet)	Angle (Degree)	Point Height "W"	
100'	25	77.6	97' 8"	62,800
	30	74.6	96' 5"	50,900
	35	71.6	94' 11"	42,700
	40	66.6	93' 1"	36,600
	45	65.5	91' 0"	32,000
	50	62.3	88' 6"	28,300
	55	59.0	85' 8"	25,300
	60	55.6	82' 6"	22,800
	65	52.0	78' 10"	20,800
	70	48.3	74' 8"	19,000
110'	25	78.7	107' 11"	62,600
	30	76.1	106' 9"	50,700
	35	73.4	105' 5"	42,500
	40	70.6	103' 9"	36,400
	45	67.8	101' 10"	31,800
	50	65.0	99' 8"	28,100
	55	62.1	97' 2"	25,100
	60	59.1	94' 5"	22,600
	65	56.0	91' 2"	20,600
	70	52.8	87' 7"	18,800
120'	25	77.2	117' 0"	50,500
	30	74.8	115' 10"	42,300
	35	72.3	114' 4"	36,200
	40	69.8	112' 7"	31,600
	45	67.2	110' 7"	27,900
	50	64.6	108' 5"	24,800
	55	61.9	105' 10"	22,400
	60	59.2	103' 1"	20,300
	65	56.3	99' 11"	18,600
	70	53.4	96' 4"	17,000
130'	25	76.6	127' 11"	48,400
	30	74.2	126' 5"	40,200
	35	71.7	124' 9"	34,100
	40	69.2	122' 12"	29,500
	45	66.6	120' 10"	25,800
	50	64.0	118' 7"	22,700
	55	61.4	115' 10"	20,200
	60	58.8	113' 1"	18,100
	65	56.2	109' 11"	16,400
	70	53.6	106' 8"	15,100
140'	25	75.9	138' 11"	46,300
	30	73.5	137' 5"	38,100
	35	71.0	135' 9"	32,000
	40	68.5	133' 12"	27,400
	45	65.9	131' 10"	23,700
	50	63.3	129' 7"	20,600
	55	60.7	126' 10"	18,100
	60	58.1	123' 1"	16,000
	65	55.5	119' 11"	14,300
	70	52.9	116' 8"	13,000
150'	25	75.2	149' 11"	44,200
	30	72.8	148' 5"	36,000
	35	70.3	146' 9"	30,000
	40	67.8	144' 12"	25,400
	45	65.2	142' 10"	21,700
	50	62.6	140' 7"	18,600
	55	60.0	137' 10"	16,100
	60	57.4	134' 1"	14,000
	65	54.8	130' 11"	12,300
	70	52.2	127' 8"	11,000
160'	25	74.5	160' 11"	42,100
	30	72.1	159' 5"	33,900
	35	69.6	157' 9"	27,900
	40	67.1	155' 12"	23,300
	45	64.5	153' 10"	19,600
	50	61.9	151' 7"	16,500
	55	59.3	148' 10"	14,000
	60	56.7	145' 1"	12,300
	65	54.1	141' 11"	11,000
	70	51.5	138' 8"	9,700
170'	25	73.8	171' 11"	40,000
	30	71.4	170' 5"	31,800
	35	68.9	168' 9"	25,800
	40	66.4	166' 12"	21,200
	45	63.8	164' 10"	17,500
	50	61.2	162' 7"	14,400
	55	58.6	159' 10"	12,000
	60	56.0	156' 1"	10,300
	65	53.4	152' 11"	9,000
	70	50.8	149' 8"	7,700
180'	25	73.1	182' 11"	37,900
	30	70.7	181' 5"	29,700
	35	68.2	179' 9"	23,700
	40	65.7	177' 12"	19,100
	45	63.1	175' 10"	15,400
	50	60.5	173' 7"	12,300
	55	57.9	170' 10"	10,000
	60	55.3	167' 1"	8,700
	65	52.7	163' 11"	7,400
	70	50.1	160' 8"	6,100
190'	25	72.4	193' 11"	35,800
	30	70.0	192' 5"	27,600
	35	67.5	190' 9"	21,600
	40	65.0	188' 12"	17,000
	45	62.4	186' 10"	13,300
	50	59.8	184' 7"	10,200
	55	57.2	181' 10"	8,000
	60	54.6	178' 1"	6,700
	65	52.0	174' 11"	5,400
	70	49.4	171' 8"	4,100

① Total suspended load — including load, hook block and/or other load handling gear.

(Over)

## GENERAL INFORMATION ONLY

Length	BOOM		Point Height "W"	Rated Load ①
	Radius (Feet)	Angle (Degree)		
130'	30	78.2	127' 3"	50,300
	35	76.0	126' 2"	42,100
	40	73.7	124' 9"	35,900
	45	71.4	123' 2"	31,300
	50	69.0	121' 5"	27,600
	55	66.7	119' 4"	24,600
	60	64.2	117' 1"	22,200
	65	61.8	114' 6"	20,100
	70	59.2	111' 8"	18,300
	75	56.6	108' 7"	16,800
	80	54.0	105' 1"	15,500
	85	51.2	101' 3"	14,300
	90	48.3	97' 0"	13,200
	95	45.3	92' 4"	12,300
	100	42.1	87' 1"	11,500
	105	38.7	81' 3"	10,800
	110	35.0	74' 7"	10,100
	115	30.9	66' 10"	9,500
120	26.3	57' 8"	8,900	
125	20.8	46' 3"	8,400	
130	13.3	30' 0"	7,300	
134	0.0	0' 0"	4,100	
140'	30	79.1	137' 6"	50,000
	35	77.0	136' 5"	41,800
	40	74.9	135' 2"	35,700
	45	72.8	133' 8"	31,100
	50	70.6	132' 1"	27,400
	55	68.4	130' 2"	24,400
	60	66.2	128' 1"	22,000
	65	63.9	125' 9"	19,900
	70	61.6	123' 2"	18,100
	75	59.3	120' 4"	16,600
	80	56.9	117' 3"	15,200
	85	54.4	113' 10"	14,100
	90	51.8	110' 1"	13,000
	95	49.2	106' 0"	12,100
	100	46.4	101' 5"	11,300
	105	43.5	95' 5"	10,600
	110	40.5	90' 10"	9,900
	115	37.2	84' 8"	9,300
120	33.7	77' 8"	8,700	
125	29.8	69' 7"	8,200	
130	25.4	60' 0"	7,700	
135	20.1	48' 0"	7,200	
140	12.8	31' 1"	6,100	
144	0.0	0' 0"	3,200	
150'	35	77.9	146' 9"	39,300
	40	75.9	145' 6"	35,500
	45	73.9	144' 2"	30,900
	50	71.9	142' 7"	27,200
	55	69.9	140' 11"	24,200
	60	67.9	138' 11"	21,800
	65	65.8	136' 10"	19,700
	70	63.7	134' 5"	17,900
	75	61.5	131' 10"	16,400
	80	59.3	129' 0"	15,000
	85	57.1	125' 11"	13,900
	90	54.8	122' 7"	12,800
	95	52.4	118' 10"	11,900
	100	50.0	114' 10"	11,100
	105	47.4	110' 5"	10,400
	110	44.8	105' 8"	9,700
	115	42.0	100' 4"	9,000
	120	39.0	94' 6"	8,500
125	35.9	88' 0"	7,900	
130	32.5	80' 7"	7,500	
135	28.8	72' 2"	7,000	
140	24.5	62' 2"	6,600	
145	19.4	49' 9"	6,200	
150	12.4	32' 3"	4,900	
154	0.0	0' 0"	2,300	

**NOTES — Crane Capacities**

- Capacities shown are in pounds and represent maximum allowable loads based on strength capabilities of the machine.
- Hook block weighing 1,400# has been considered part of the machine. If weight of hook block and/or other suspended load handling gear exceeds 1,400#, working load should be adjusted accordingly.
- Main boom tip shall not be more than 10° below boomfeet.
- Wire rope used to handle each rated load must be 7/8" dia. with minimum breaking strength is 69,200#.
- The 24' 0" boom live mast must be used for all capacities on this chart.
- 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.
- These capacities apply to the machine only as originally manufactured and normally equipped by FMC Corporation, Crane & Excavator Division.
- FMC Corporation assumes no responsibility for proper design and construction of supporting structure to withstand the loadings imposed by the machine — nor proper attachment of the turntable bearing mounting base on the supporting structure.
- Rated loads are in compliance with API "Specifications for the load rating of offshore cranes."

① Total suspended load — including load, hook block and/or other load handling gear.

**GENERAL INFORMATION ONLY**

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

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