

ABS-108B CRANE CAPACITIES

Refer to ALL notes on this page.

Based on std. revolving crane upper mounted on appropriate supporting structure; equipped with 19,200# counterweight "A", retractable high gantry, 1 1/2" dia. boom pendants, and 34" x 34" angle boom with open throat top section — with or without 10,000# capacity (10' 0" long) boom tip extension.

Length	BOOM			WORKING LOAD ①		Parts of Load Hoist Rope ②	Boom Pendant Lengths ③
	Radius (Feet)	Angle (Degree)	Point Height "W"	With 10,000# Boom Tip Extension	Without 10,000# Boom Tip Extension		
40'	10	80.2	39' 5"	80,200	81,700	6	16' 4"
	11	78.7	39' 3"	80,200	81,700	6	
	12	77.2	39' 0"	80,200	81,700	6	
	13	75.8	38' 10"	80,200	81,700	6	
	14	74.3	38' 6"	76,600	78,100	6	
	15	72.8	38' 3"	71,900	73,400	6	
	20	65.1	36' 4"	54,700	56,200	5	
	25	56.9	33' 6"	43,800	45,300	4	
	30	47.9	29' 9"	36,400	37,900	3	
	35	37.3	24' 3"	30,900	32,400	3	
40	22.9	15' 8"	19,700	21,200	2		
50'	12	79.8	49' 3"	80,100	81,600	6	26' 4"
	13	78.7	49' 0"	80,100	81,600	6	
	14	77.5	48' 10"	76,100	77,600	6	
	15	76.3	48' 8"	71,300	72,800	6	
	20	70.3	47' 2"	54,200	55,700	5	
	25	64.1	45' 0"	43,300	44,800	4	
	30	57.5	42' 3"	35,900	37,400	3	
	35	50.4	38' 8"	30,400	31,900	3	
40	42.5	33' 10"	21,700	23,200	3		
50	20.5	17' 6"	13,800	15,300	2		
60'	15	78.6	58' 10"	70,800	72,300	6	36' 4"
	20	73.7	57' 8"	53,600	55,100	5	
	25	68.7	55' 11"	42,800	44,300	4	
	30	63.4	53' 9"	35,400	36,900	3	
	35	57.9	50' 11"	30,000	31,500	3	
	40	52.1	47' 5"	21,300	22,800	3	
50	38.7	37' 6"	16,300	17,800	2		
60	18.7	19' 3"	9,900	11,400	2		
70'	15	80.3	69' 0"	64,100	65,600	5	46' 4"
	20	76.1	67' 11"	53,100	54,600	5	
	25	71.8	66' 6"	42,300	43,800	4	
	30	67.5	64' 8"	34,900	36,400	3	
	35	62.9	62' 4"	29,500	31,000	3	
	40	58.2	59' 6"	20,800	22,300	3	
	50	48.0	52' 0"	15,800	17,300	2	
	60	35.7	40' 11"	12,300	13,800	2	
70	17.3	20' 10"	6,900	8,400	1		
80'	20	77.8	78' 3"	49,500	51,000	4	56' 4"
	25	74.2	77' 0"	40,800	42,300	4	
	30	70.4	75' 5"	34,200	35,700	3	
	35	66.5	73' 5"	28,400	29,900	3	
	40	62.6	71' 0"	20,300	21,800	3	
	50	54.2	64' 11"	15,300	16,800	2	
	60	44.7	56' 4"	11,900	13,400	2	
	70	33.3	44' 0"	8,000	9,500	1	
80	16.2	22' 4"	3,600	5,100	1		
90'	20	79.2	88' 5"	43,200	44,700	4	66' 4"
	25	76.0	87' 4"	36,100	37,600	3	
	30	72.6	85' 11"	29,600	31,100	3	
	35	69.3	84' 3"	25,000	26,500	3	
	40	65.8	82' 2"	19,900	21,400	3	
	50	58.6	76' 11"	14,700	16,200	2	
	60	50.8	69' 10"	10,900	12,400	2	
	70	42.0	60' 4"	7,300	8,800	1	
	80	31.4	46' 11"	4,200	5,700	1	
90	15.2	23' 8"	900	2,400	1		

Length	BOOM			WORKING LOAD ①		Parts of Load Hoist Rope ②	Boom Pendant Lengths ③
	Radius (Feet)	Angle (Degree)	Point Height "W"	With 10,000# Boom Tip Extension	Without 10,000# Boom Tip Extension		
100'	20	80.3	98' 7"	38,300	39,800	3	76' 4"
	25	77.4	97' 8"	32,100	33,600	3	
	30	74.4	96' 4"	26,200	27,700	3	
	35	71.4	94' 10"	22,100	23,600	3	
	40	68.4	93' 0"	18,700	20,200	2	
	50	62.1	88' 5"	12,900	14,400	2	
	60	55.4	82' 4"	9,500	11,000	2	
	70	48.1	74' 5"	6,100	7,600	1	
	80	39.8	64' 0"	3,500	5,000	1	
	90	29.7	49' 8"	1,100	2,600	1	
100	14.4	24' 11"	—	—	—		

- ① Load on cargo hook
- ② Required parts of load hoist rope to handle rated loads.
- ③ Required boom pendant lengths with or without boom tip extension.

NOTES — Crane Capacities

1. Capacities shown are in pounds and represent maximum allowable loads based on strength capabilities of the machine.
2. Hook block weighing 500# has been considered part of the machine. If weight of hook block and/or other suspended load handling gear exceeds 500#, working load should be adjusted accordingly.
3. Boom tip shall not be more than 5' below boomfeet.
4. Wire rope used to handle each rated load must be 3/4" dia. with minimum breaking strength of 58,800# and must be used in the number of parts of line indicated.
5. Retractable high gantry must be fixed in raised position for all capacities on this chart.
6. Maximum capacity of 10' boom tip extension is 10,000# regardless of boom length. This capacity applies only when the 10,000# is within the rated lifting capacity of the machine.
7. 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.
8. Boom tip extension (10') must be fixed in working position 15° offset from centerline of boom.
9. Do not lift load on boom tip extension when main cargo hook is in use.
10. These capacities apply to the machine only as originally manufactured and normally equipped by FMC Corporation, Crane & Excavator Division.
11. 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 hook roller path mounting base on the supporting structure.
12. Loads are within the requirements for certification of the construction and survey of cargo gear on merchant vessels by the American Bureau of Shipping per 1969 revisions.

FMC Corporation, Cable Crane and Excavator Division, certifies that those components of this machine which it has manufactured or assembled were designed, manufactured and assembled to conform with the requirements of ANSI B30.5-1968 and Sections 1910.180 and 1926.550 of the U.S. Department of Labor Safety and Health Regulations in effect at time of manufacture except for operational testing. Testing of the complete unit is to be performed after final assembly.

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Length	BOOM			WORKING LOAD ①		Parts of Load Hoist Rope ②	Boom Pendant Lengths ③
	Radius (Feet)	Angle (Degree)	Point Height "W"	With 10,000# Boom Tip Extension	Without 10,000# Boom Tip Extension		
40'	10	80.2	39' 5"	80,200	81,700	6	16' 4"
	11	78.7	39' 3"	80,200	81,700	6	
	12	77.2	39' 0"	80,200	81,700	6	
	13	75.8	38' 10"	80,200	81,700	6	
	14	74.3	38' 6"	76,600	78,100	6	
	15	72.8	38' 3"	71,900	73,400	6	
	20	65.1	36' 4"	54,700	56,200	5	
	25	56.9	33' 6"	43,800	45,300	4	
	30	47.9	29' 9"	36,400	37,900	3	
	35	37.3	24' 3"	30,900	32,400	3	
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50'	12	79.8	49' 3"	80,100	81,600	6	26' 4"
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