

# FMC UC-138A maximum allowable open throat capacities

PCSA Class (12-587)

Serial Number

19UH3-544A

Capacities are for a crane on Pierce 6 x 4 self propelled carrier and equipped with 1-1/4" diameter pendants and open throat 48" x 48" angle boom. Machine equipped with "AB" upper chnl.

Refer to All notes at bottom.

BOOM			Capacities				
Length	Radius	Angle	On Outriggers		On Tires (See Notes 2 and 3)		
			Front Or Rear	360°	Rear	360°	Rear
50'	11	81.0	158,000*	158,000*	122,500*	88,500*	117,000*
	12	79.8	156,000*	156,000*	119,500*	88,000*	116,000*
	13	78.7	153,500*	153,500*	118,000*	87,500*	115,000*
	14	77.5	150,500*	150,500*	116,500*	87,000*	114,000*
	15	76.3	147,500*	147,500*	115,000*	86,500*	113,000*
	16	75.1	135,700*	135,700*	105,500*	86,000*	108,000*
	17	73.9	133,400*	133,400*	104,000*	85,500*	107,000*
	18	72.7	131,700*	131,700*	102,500*	85,000*	106,000*
	19	71.5	115,800*	115,800*	96,000*	84,500*	105,000*
	20	70.3	110,300*	110,300*	94,500*	84,000*	104,000*
	60'	13	80.6	138,900*	138,900*	109,400*	78,400*
14		79.6	136,400*	136,400*	108,000*	78,000*	107,000*
15		78.6	133,900*	133,900*	106,500*	77,500*	106,000*
16		77.5	131,400*	131,400*	105,000*	77,000*	105,000*
17		76.7	128,900*	128,900*	103,500*	76,500*	104,000*
18		75.7	126,400*	126,400*	102,000*	76,000*	103,000*
19		74.7	123,900*	123,900*	100,500*	75,500*	102,000*
20		73.7	121,400*	121,400*	99,000*	75,000*	101,000*
22		71.7	115,900*	115,900*	97,500*	74,500*	100,000*
23		70.7	113,400*	113,400*	96,000*	74,000*	99,000*
70'		15	80.3	124,200*	124,200*	104,700*	82,900*
	16	79.4	121,700*	121,700*	103,200*	82,400*	102,200*
	17	78.5	119,200*	119,200*	101,700*	81,900*	101,200*
	18	77.6	116,700*	116,700*	100,200*	81,400*	100,200*
	19	76.6	114,200*	114,200*	98,700*	80,900*	99,200*
	20	75.6	111,700*	111,700*	97,200*	80,400*	98,200*
	22	73.6	106,200*	106,200*	95,700*	79,900*	97,200*
	23	72.6	103,700*	103,700*	94,200*	79,400*	96,200*
	25	71.0	98,200*	98,200*	92,700*	78,900*	95,200*
	26	70.0	95,700*	95,700*	91,200*	78,400*	94,200*
	80'	16	80.0	109,500*	109,500*	101,000*	85,300*
17		80.0	107,000*	107,000*	99,500*	84,800*	101,200*
18		79.3	104,500*	104,500*	98,000*	84,300*	100,200*
19		78.6	102,000*	102,000*	96,500*	83,800*	99,200*
20		77.9	99,500*	99,500*	95,000*	83,300*	98,200*
22		76.2	94,000*	94,000*	93,500*	82,800*	97,200*
23		75.2	91,500*	91,500*	92,000*	82,300*	96,200*
25		74.2	86,000*	86,000*	90,500*	81,800*	95,200*
30		70.4	79,500*	79,500*	89,000*	81,300*	94,200*
35		66.6	73,000*	73,000*	87,500*	80,800*	93,200*
40		62.8	66,500*	66,500*	86,000*	80,300*	92,200*

BOOM			Capacities				
Length	Radius	Angle	On Outriggers		On Tires (See Notes 2 and 3)		
			Front Or Rear	360°	Rear	360°	Rear
50'	18	80.5	88,500*	88,500*	88,100*	58,600*	88,100*
	19	79.9	87,000*	87,000*	86,600*	58,100*	86,600*
	20	79.2	85,500*	85,500*	85,100*	57,600*	85,100*
	22	77.6	83,000*	83,000*	82,600*	57,100*	82,600*
	24	76.0	80,500*	80,500*	80,100*	56,600*	80,100*
	26	74.4	78,000*	78,000*	77,600*	56,100*	77,600*
	28	72.8	75,500*	75,500*	75,100*	55,600*	75,100*
	30	71.2	73,000*	73,000*	72,600*	55,100*	72,600*
	32	69.6	70,500*	70,500*	70,100*	54,600*	70,100*
	34	68.0	68,000*	68,000*	67,600*	54,100*	67,600*
	36	66.4	65,500*	65,500*	65,100*	53,600*	65,100*
60'	20	80.9	89,000*	89,000*	82,400*	65,100*	78,100*
	22	80.3	87,500*	87,500*	80,900*	64,600*	76,600*
	24	79.7	86,000*	86,000*	79,400*	64,100*	75,100*
	26	79.1	84,500*	84,500*	77,900*	63,600*	73,600*
	28	78.5	83,000*	83,000*	76,400*	63,100*	72,100*
	30	77.9	81,500*	81,500*	74,900*	62,600*	70,600*
	32	77.3	80,000*	80,000*	73,400*	62,100*	69,100*
	34	76.7	78,500*	78,500*	71,900*	61,600*	67,600*
	36	76.1	77,000*	77,000*	70,400*	61,100*	66,100*
	38	75.5	75,500*	75,500*	68,900*	60,600*	64,600*
	40	74.9	74,000*	74,000*	67,400*	60,100*	63,100*
70'	21	80.7	78,500*	78,500*	78,500*	69,500*	69,500*
	22	79.9	77,000*	77,000*	77,000*	69,000*	69,000*
	23	79.1	75,500*	75,500*	75,500*	68,500*	68,500*
	24	78.3	74,000*	74,000*	74,000*	68,000*	68,000*
	25	77.5	72,500*	72,500*	72,500*	67,500*	67,500*
	26	76.7	71,000*	71,000*	71,000*	67,000*	67,000*
	27	75.9	69,500*	69,500*	69,500*	66,500*	66,500*
	28	75.1	68,000*	68,000*	68,000*	66,000*	66,000*
	29	74.3	66,500*	66,500*	66,500*	65,500*	65,500*
	30	73.5	65,000*	65,000*	65,000*	65,000*	65,000*
	31	72.7	63,500*	63,500*	63,500*	64,500*	64,500*
80'	22	81.0	88,500*	88,500*	68,500*	68,500*	68,500*
	25	79.5	86,000*	86,000*	67,000*	68,000*	68,000*
	28	77.1	83,500*	83,500*	65,500*	67,500*	67,500*
	31	74.6	81,000*	81,000*	64,000*	67,000*	67,000*
	34	72.1	78,500*	78,500*	62,500*	66,500*	66,500*
	37	69.6	76,000*	76,000*	61,000*	66,000*	66,000*
	40	67.1	73,500*	73,500*	59,500*	65,500*	65,500*
	43	64.6	71,000*	71,000*	58,000*	65,000*	65,000*
	46	62.1	68,500*	68,500*	56,500*	64,500*	64,500*
	49	59.6	66,000*	66,000*	55,000*	64,000*	64,000*
	52	57.1	63,500*	63,500*	53,500*	63,500*	63,500*

Lifting Crane Notes:

1. The capacities included in this chart are the maximum allowable under ideal job conditions based on machine standing level on firm supporting surface on fully extended and set outriggers, with tires free of supporting surface. Capacities are based on 85% of minimum lifting loads unless marked with an asterisk (\*). A deduction must be made from these capacities for weight of hook blocks, hook, sling, snaffle, load weighing devices, etc.

2. See also deduction for 10' tip extension and its combinations. See operator's manual for all restrictions when raising or lowering attachment. See Note 3. 3. Indicates these capacities are based on factors other than those which would cause a tipping condition. 4. Static and dynamic capacities on tires depend on tire capacity, condition of tires, and recommended tire pressure. Do not pick up loads from main hook block only at a boom and level surface (lifts from its combinations are prohibited on tires).

BOOM			Capacities				
Length	Radius	Angle	On Outriggers		On Tires (See Notes 2 and 3)		
			Front Or Rear	360°	Rear	360°	Rear
130'	24	80.3	63,100*	63,100*	63,100*	43,000*	61,000*
	25	80.3	62,100*	62,100*	62,100*	42,000*	60,000*
	26	79.2	61,100*	61,100*	61,100*	41,000*	59,000*
	27	78.0	60,100*	60,100*	60,100*	40,000*	58,000*
	28	76.8	59,100*	59,100*	59,100*	39,000*	57,000*
	29	75.6	58,100*	58,100*	58,100*	38,000*	56,000*
	30	74.4	57,100*	57,100*	57,100*	37,000*	55,000*
	31	73.2	56,100*	56,100*	56,100*	36,000*	54,000*
	32	72.0	55,100*	55,100*	55,100*	35,000*	53,000*
	33	70.8	54,100*	54,100*	54,100*	34,000*	52,000*
	34	69.6	53,100*	53,100*	53,100*	33,000*	51,000*
140'	28	80.3	51,300*	51,300*	51,300*	39,200*	51,300*
	29	79.6	50,300*	50,300*	50,300*	38,200*	50,300*
	30	78.9	49,300*	49,300*	49,300*	37,200*	49,300*
	31	78.2	48,300*	48,300*	48,300*	36,200*	48,300*
	32	77.5	47,300*	47,300*	47,300*	35,200*	47,300*
	33	76.8	46,300*	46,300*	46,300*	34,200*	46,300*
	34	76.1	45,300*	45,300*	45,300*	33,200*	45,300*
	35	75.4	44,300*	44,300*	44,300*	32,200*	44,300*
	36	74.7	43,300*	43,300*	43,300*	31,200*	43,300*
	37	74.0	42,300*	42,300*	42,300*	30,200*	42,300*
	38	73.3	41,300*	41,300*	41,300*	29,200*	41,300*
150'	27	80.6	47,300*	47,300*	47,300*	37,200*	47,300*
	28	79.7	46,300*	46,300*	46,300*	36,200*	46,300*
	29	78.7	45,300*	45,300*	45,300*	35,200*	45,300*
	30	77.8	44,300*	44,300*	44,300*	34,200*	44,300*
	31	76.9	43,300*	43,300*	43,300*	33,200*	43,300*
	32	76.0	42,300*	42,300*	42,300*	32,200*	42,300*
	33	75.1	41,300*	41,300*	41,300*	31,200*	41,300*
	34	74.2	40,300*	40,300*	40,300*	30,200*	40,300*
	35	73.3	39,300*	39,300*	39,300*	29,200*	39,300*
	36	72.4	38,300*	38,300*	38,300*	28,200*	38,300*
	37	71.5	37,300*	37,300*	37,300*	27,200*	37,300*

Deductions When picking from main hook with:

10' Tip Extension	1,700 lbs
20' Jib	2,000 lbs
30' Jib	2,400 lbs
40' Jib	2,800 lbs

Tire Pressure\*

Size	Ply	Pressure
Rear duals 16.5 x 25	24	85 PSI
Front Singles 23.5 x 25	24	70 PSI

- Maximum capacity of 30' boom tip extension is 10,000 lbs, regardless of boom length. This capacity applies only when the load (10,000 lbs.) is within the lifting capacity of the machine for boom length and radius being considered. When lifting loads with 10' boom tip extension, load radius must be known. Do not determine load radius by boom angle.
- Maximum boom length with tip extension is 150'.
- These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation Construction Equipment Group - Pierce Pacific Manufacturing Inc. in vendor carrier specification drawing 10A2647-C dated 8-1-83 for that Model HC2084 carrier on which is mounted FMC UC138A upper equipped with "AB" counterweight and open throat angle boom.
- Proper design of the carrier to withstand the loading imposed and proper attachment of the mounting plate to the carrier shall be the responsibility of Pierce Pacific Manufacturing Inc. and the purchaser.
- Proper mounting of the upper to the carrier and OSHA operational and stability tests are the responsibility of the final assembler and not FMC Corporation.
- Load ratings shown on this chart are based on freely suspended loads and make no allowance for such factors as the effect of wind, ground conditions and operating speed. The operator therefore shall reduce load ratings in order to take these conditions into account.