

HC-138 CAPACITIES WITH TUBULAR BOOM

PCSA Class 12-320
Refer to ALL notes below.

Capacities are based on machine equipped with live boom mast (fully extended), 8 x 4 drive carrier, 11' 0" wide, 14:00 x 20 18-ply rating tires, front and rear power hydraulic outriggers, 18,000# cwt. and 4,300# bumper cwt.

BOOM				ON OUTRIGGERS		ON TIRES	
Length	Radius	Angle	Point Ht. W.	Rear	Side	Rear	Side
40'	12'	78°	45' 11"	130,000*	130,000*	76,700*	62,310*
	13'	78°	45' 7"	128,040*	127,140*	73,870*	58,450*
	14'	74°	45' 4"	119,790*	119,080*	71,250*	55,010*
	15'	73°	45' 0"	112,500*	111,990*	68,790*	51,930*
	20'	65°	43' 1"	86,000*	85,830*	47,760*	35,510*
	25'	57°	40' 5"	67,530*	66,690*	35,540*	26,140*
	30'	48°	36' 6"	54,980*	49,320*	28,010*	20,370*
	35'	37°	31' 1"	44,890*	38,810*	22,680*	16,480*
40'	23°	22' 5"	37,240*	31,730*	19,150*	13,600*	
50'	13'	79°	55' 11"	127,380*	127,110*	73,630*	58,370*
	14'	78°	55' 8"	119,780*	119,050*	71,010*	54,930*
	15'	78°	55' 5"	112,480*	111,930*	68,560*	51,850*
	20'	70°	53' 11"	85,980*	85,800*	47,890*	35,650*
	25'	64°	51' 10"	67,600*	66,990*	35,850*	26,250*
	30'	58°	48' 11"	54,490*	49,560*	28,100*	20,470*
	35'	50°	45' 5"	45,000*	39,030*	22,980*	16,560*
	40'	43°	40' 7"	38,150*	31,960*	19,270*	13,730*
50'	21°	24' 4"	28,390*	23,030*	14,220*	9,870*	
60'	15'	79°	65' 10"	112,630*	112,070*	68,410*	51,920*
	20'	74°	64' 5"	86,090*	85,990*	48,170*	35,930*
	25'	69°	62' 8"	67,770*	67,420*	35,850*	26,450*
	30'	63°	60' 8"	54,670*	49,880*	28,250*	20,630*
	35'	58°	57' 8"	45,150*	39,270*	23,100*	16,880*
	40'	52°	54' 2"	38,270*	32,160*	19,380*	13,930*
	50'	39°	44' 4"	28,580*	23,220*	14,330*	9,980*
	60'	19°	28' 1"	22,090*	17,760*	11,020*	7,440*
70'	20'	76°	74' 10"	85,930*	85,840*	48,150*	35,920*
	25'	72°	73' 4"	67,680*	67,530*	35,810*	26,410*
	30'	68°	71' 6"	54,600*	49,930*	28,200*	20,580*
	35'	63°	69' 2"	45,080*	39,300*	23,050*	16,630*
	40'	58°	66' 5"	38,190*	32,170*	19,320*	13,780*
	50'	48°	58' 11"	28,580*	23,220*	14,280*	9,930*
	60'	36°	47' 10"	22,100*	17,800*	11,010*	7,430*
	70'	17°	27' 7"	17,710*	14,130*	8,690*	5,650*
80'	20'	78°	85' 0"	85,750*	85,660*	48,100*	35,870*
	25'	74°	83' 10"	67,560*	67,560*	35,730*	26,340*
	30'	70°	82' 2"	54,500*	49,940*	28,120*	20,490*
	35'	67°	80' 2"	44,990*	39,280*	22,950*	16,540*
	40'	63°	77' 11"	38,090*	32,140*	19,220*	13,690*
	50'	54°	71' 10"	28,530*	23,170*	14,180*	9,840*
	60'	45°	63' 1"	22,050*	17,760*	10,930*	7,350*
	70'	33°	50' 10"	17,700*	14,120*	8,640*	5,600*
80'	16°	29' 1"	14,540*	11,470*	6,920*	4,270*	
90'	20'	79°	95' 4"	81,510*	81,510*	48,030*	35,800*
	25'	76°	94' 2"	67,420*	67,420*	35,640*	26,250*
	30'	73°	92' 6"	54,360*	49,920*	28,010*	20,380*
	35'	69°	91' 0"	44,840*	39,240*	22,840*	16,430*
	40'	66°	89' 0"	37,950*	32,080*	19,110*	13,570*
	50'	59°	83' 2"	28,460*	23,090*	14,060*	9,720*
	60'	51°	76' 7"	21,870*	17,670*	10,810*	7,240*
	70'	42°	67' 1"	17,820*	14,040*	8,530*	5,500*
80'	31°	53' 8"	14,500*	11,420*	6,840*	4,200*	
90'	15°	30' 6"	12,110*	9,420*	5,510*	3,170*	
100'	25'	77°	104' 5"	67,260*	67,260*	35,530*	26,140*
	30'	74°	103' 2"	54,240*	49,890*	27,890*	20,270*
	40'	68°	99' 10"	37,790*	32,010*	18,980*	13,440*
	50'	62°	95' 2"	28,360*	23,000*	13,930*	9,590*
	60'	55°	89' 1"	21,870*	17,570*	10,680*	7,100*
	70'	48°	81' 2"	17,520*	13,940*	8,400*	5,360*
	80'	40°	70' 10"	14,400*	11,320*	6,720*	4,080*
	90'	30°	56' 5"	12,040*	9,350*	5,410*	3,070*
100'	14°	31' 10"	10,170*	7,780*	4,350*	2,250*	
110'	25'	79°	114' 8"	64,820*	64,820*	35,410*	26,030*
	30'	78°	113' 6"	54,090*	49,840*	27,760*	20,150*
	40'	70°	110' 5"	37,630*	31,920*	18,840*	13,300*
	50'	65°	106' 5"	28,260*	22,890*	13,780*	9,440*
	60'	59°	101' 0"	21,750*	17,480*	10,530*	6,980*
	70'	53°	94' 2"	17,400*	13,820*	8,260*	5,220*
	80'	46°	85' 7"	14,280*	11,200*	6,580*	3,930*
	90'	38°	74' 5"	11,930*	9,240*	5,280*	2,940*
100'	28°	59' 0"	10,080*	7,690*	4,240*	2,140*	
110'	14°	33' 0"	8,580*	6,430*	3,370*	1,470*	

BOOM				ON OUTRIGGERS		ON TIRES	
Length	Radius	Angle	Point Ht. W.	Rear	Side	Rear	Side
120'	30'	77°	123' 10"	53,930*	49,780*	27,630*	20,010*
	40'	72°	121' 1"	37,460*	31,820*	18,690*	13,160*
	50'	67°	117' 4"	28,140*	22,790*	13,630*	9,280*
	60'	62°	112' 6"	21,620*	17,330*	10,380*	6,800*
	70'	56°	106' 6"	17,270*	13,980*	8,100*	5,060*
	80'	50°	99' 0"	14,140*	11,070*	6,420*	3,780*
	90'	44°	89' 8"	11,790*	9,100*	5,130*	2,990*
	100'	38°	77' 8"	9,960*	7,560*	4,090*	2,000*
	110'	27°	61' 6"	8,470*	6,320*	3,250*	1,350*
	120'	13°	34' 2"	7,240*	5,280*	2,520*	—
130'	30'	78°	134' 0"	52,380*	48,720*	27,490*	19,870*
	40'	74°	131' 6"	37,280*	31,720*	18,540*	13,010*
	50'	69°	128' 1"	27,980*	22,660*	13,470*	9,130*
	60'	64°	123' 10"	21,460*	17,200*	10,210*	6,640*
	70'	59°	118' 4"	17,130*	13,550*	7,940*	4,900*
	80'	54°	111' 8"	14,000*	10,930*	6,260*	3,620*
	90'	48°	103' 7"	11,650*	8,980*	4,980*	2,830*
	100'	42°	93' 7"	9,810*	7,420*	3,940*	1,840*
	110'	35°	80' 11"	8,340*	6,190*	3,090*	1,200*
	120'	26°	63' 10"	7,120*	5,160*	2,390*	—
130'	13°	35' 4"	6,080*	4,290*	1,770*	—	
140'	30'	79°	144' 2"	47,730*	47,730*	27,340*	19,730*
	40'	75°	141' 11"	37,090*	31,610*	18,380*	12,850*
	50'	71°	138' 10"	27,760*	22,510*	13,310*	8,970*
	60'	66°	134' 10"	21,360*	17,080*	10,050*	6,480*
	70'	62°	129' 11"	16,980*	13,400*	7,770*	4,740*
	80'	57°	123' 11"	13,850*	10,780*	6,090*	3,450*
	90'	52°	116' 8"	11,500*	8,810*	4,800*	2,460*
	100'	46°	107' 11"	9,680*	7,270*	3,770*	1,680*
	110'	40°	97' 4"	8,190*	6,040*	2,930*	1,040*
	120'	33°	84' 0"	6,980*	5,020*	2,230*	—
130'	25°	66' 1"	5,960*	4,160*	1,640*	—	
140'	12°	36' 5"	5,070*	3,420*	1,110*	—	
150'	35'	78°	153' 5"	39,180*	38,750*	21,980*	16,580*
	40'	76°	152' 4"	34,890*	31,500*	18,220*	12,890*
	50'	72°	149' 4"	27,920*	22,400*	13,150*	8,800*
	60'	68°	145' 8"	21,210*	16,820*	9,880*	6,310*
	70'	64°	141' 1"	16,840*	13,250*	7,600*	4,560*
	80'	59°	135' 8"	13,700*	10,630*	5,920*	3,280*
	90'	55°	129' 2"	11,350*	8,680*	4,620*	2,290*
	100'	50°	121' 5"	9,510*	7,120*	3,600*	1,510*
	110'	45°	112' 1"	8,030*	5,980*	2,760*	—
	120'	39°	100' 11"	6,820*	4,870*	2,070*	—
130'	32°	88' 11"	5,770*	4,010*	1,470*	—	
140'	24°	69' 4"	4,810*	3,290*	—	—	
150'	12°	37' 6"	4,060*	2,640*	—	—	
160'	35'	79°	163' 7"	36,070*	36,070*	21,830*	15,420*
	40'	77°	162' 6"	31,450*	31,380*	18,060*	12,530*
	50'	73°	159' 10"	25,070*	22,270*	12,980*	8,640*
	60'	68°	155' 5"	20,110*	16,770*	9,710*	6,140*
	70'	65°	152' 2"	16,680*	13,100*	7,430*	4,390*
	80'	61°	147' 2"	12,760*	10,470*	5,740*	3,100*
	90'	57°	141' 2"	10,520*	8,580*	4,450*	2,120*
	100'	53°	134' 5"	8,860*	6,960*	3,420*	1,330*
	110'	48°	125' 11"	7,110*	5,720*	2,590*	—
	120'	43°	116' 2"	5,880*	4,710*	1,890*	—
130'	38°	104' 5"	4,770*	3,860*	1,300*	—	
150'	23°	70' 5"	3,130*	2,500*	—	—	
160'	11°	38' 6"	2,540*	1,940*	—	—	

NOTES — Lifting Crane

- For lifting 130,000 pounds with 3/4" rope, 10-parts of 3/4" type "N" hoist rope is required. Check parts of line required for all capacities.
- Capacities shown are in pounds and unless indicated by an asterisk (*), are based on 85% of minimum tipping loads, with machine standing on firm, level ground. Deduction must be made for weight of hook block, hook, sling, grapple, etc.
- When using live boom mast as a short boom, maximum lifting capacity of the live mast is 18,000 lbs. at 10' 0" minimum radius to 23' 0" maximum radius, with live mast extended, on outriggers side and rear.
- Live boom mast plus mid-point suspension pendant are required for boom lengths exceeding 140'.

*These capacities are the maximum capacities, and are based on factors other than the machine's tipping condition.