

**UC-98A LIFTING CAPACITIES^① WITH RETRACTABLE HIGH GANTRY**

FOR DRAGLINE, CLAMSHELL AND MAGNET CAPACITIES SEE NOTE ④

- ANGLE BOOM -

BOOM			W Boom Point Height	ON TIRES 360° Swing ^③	ON OUTRIGGERS 360° Swing ^③
Length	Radius	Angle			
40'	10'	80°	46' 2"	61,710*	70,000*
	12'	77°	45' 9"	50,340*	70,000*
	15'	73°	44' 11"	39,190	57,000*
	20'	65°	43' 1"	26,250	43,400*
	25'	57°	40' 4"	19,520	33,500*
	30'	48°	36' 5"	15,390	27,200*
	35'	37°	31' 1"	12,610	22,700*
	40'	23°	22' 5"	10,600	21,230
50'	12'	80°	56' 0"	49,920*	68,700*
	15'	76°	55' 4"	38,880*	56,530*
	20'	70°	53' 10"	25,970	43,020*
	25'	64°	51' 9"	19,230	33,130*
	30'	58°	49' 0"	15,110	26,830*
	35'	51°	45' 4"	12,320	22,350*
	40'	43°	40' 7"	10,310	20,990
	45'	33°	34' 3"	8,790	17,830
60'	50'	21°	24' 4"	7,600	15,430
	15'	79°	65' 7"	38,470*	56,060*
	20'	74°	64' 4"	25,690	42,640*
	25'	69°	62' 8"	18,950	32,760*
	30'	64°	60' 5"	14,820	26,460*
	35'	58°	57' 7"	12,030	22,000*
	40'	52°	54' 2"	10,020	20,740
	45'	46°	49' 9"	8,500	17,570
70'	50'	39°	44' 5"	7,310	15,170
	55'	30°	37' 1"	6,360	13,280
	60'	19°	26' 0"	5,570	11,760
	15'	80°	75' 9"	38,060*	55,590*
	20'	76°	74' 9"	25,410	42,260*
	25'	72°	73' 3"	18,670	32,390*
	30'	68°	71' 4"	14,530	26,090*
	35'	63°	69' 1"	11,740	21,650*
70' ⑤	40'	58°	66' 3"	9,730	20,490
	45'	53°	62' 10"	8,210	17,320
	50'	48°	58' 9"	7,020	14,910
	55'	42°	53' 9"	6,070	13,020
	60'	36°	47' 6"	5,280	11,490
	65'	28°	39' 7"	4,630	10,240
	70'	17°	27' 5"	4,070	9,190

BOOM			W Boom Point Height	ON TIRES 360° Swing ^③	ON OUTRIGGERS 360° Swing ^③
Length	Radius	Angle			
80' ⑤	20'	78°	85' 0"	25,130	41,880*
	25'	74°	83' 9"	18,380	32,020*
	30'	70°	82' 1"	14,250	25,720*
	35'	67°	80' 3"	11,450	21,300*
	40'	63°	77' 9"	9,440	20,250
	45'	59°	75' 0"	7,920	17,060
	50'	54°	71' 8"	6,730	14,650
	55'	50°	67' 9"	5,770	12,750
	60'	45°	63' 1"	4,990	11,230
	65'	39°	57' 7"	4,340	9,970
	70'	33°	50' 9"	3,780	8,920
	75'	26°	42' 0"	3,300	8,020
	80'	16°	29' 2"	2,890	7,250
90' ⑤	20'	79°	95' 2"	24,850	41,500*
	25'	76°	94' 1"	18,100	31,650*
	30'	73°	92' 8"	13,960	25,350*
	35'	69°	90' 11"	11,170	20,950*
	40'	66°	88' 10"	9,150	20,000
	45'	62°	86' 5"	7,630	16,810
	50'	59°	83' 7"	6,440	14,390
	55'	55°	80' 4"	5,480	12,490
	60'	51°	76' 6"	4,700	10,960
	65'	47°	72' 2"	4,040	9,700
	70'	42°	67' 0"	3,490	8,640
	75'	37°	61' 0"	3,010	7,750
100' ⑤	80'	31°	53' 7"	2,590	6,980
	85'	24°	44' 3"	2,230	6,310
	90'	15°	30' 5"	1,910	5,720
	20'	80°	105' 4"	24,570	41,120*
	25'	77°	104' 4"	17,820	31,280*
	30'	74°	103' 1"	13,680	24,980*
	35'	71°	101' 7"	10,880	20,600*
	40'	68°	99' 9"	8,860	19,750
	45'	65°	97' 7"	7,340	16,560
	50'	62°	95' 1"	6,150	14,130
	55'	60°	92' 3"	5,190	12,230
	60'	55°	89' 0"	4,410	10,690
	65'	52°	85' 4"	3,750	9,430
	70'	48°	81' 2"	3,190	8,370
	75'	44°	76' 4"	2,720	7,470
	80'	40°	70' 9"	2,300	6,700
	85'	35°	64' 3"	1,940	6,030
	90'	30°	56' 4"	1,620	5,440
	95'	23°	46' 4"	1,330	4,920
	100'	15°	31' 9"	1,080	4,460

① Lifting capacities shown are in pounds and are not more than 85% of minimum tipping loads with machine standing on firm level ground. A deduction must be made from the above lifting capacities for weight of hook block, hook, sling, grapple, etc.

② Lifting capacities over the front at all radii are based on factors other than those which would cause a tipping condition. See Note ③.

③ The "Hi-Lite" boom gantry with mid-point suspension cables is required for all main boom lengths exceeding 130 feet, but may be used throughout the entire range of boom lengths. When using the "Hi-Lite" boom gantry as a short boom for dismantling operations, maximum lifting capacity of the gantry is 26,000 pounds at 95' radius.

* Indicates these lifting capacities are based on factors other than those which would cause a tipping condition. See Note ③.

NOTE: Six parts hoist line 3/4" cable required for maximum lifts.

④ For normal dragline work, the capacities shown in the column headed "On Tires 360° Swing" apply. For clamshell, lifting magnet and similar work, where the outward force of the load in rotation adds to the load imposed on the machine, the capacities shown in the column headed "On Tires 360° Swing" apply only after these capacities have first been reduced by at least 20%. Weight of bucket or magnet plus load also may not exceed the following maximum ratings: Dragline—8,500 lbs.; Clamshell-Magnet—10,000 lbs. These are values for normal conditions and exceptions may be made for above average conditions. However, allowances must be made for soft or uneven footing, bucket suction and other unfavorable conditions. Boom length for average dragline, clamshell, lifting magnet or similar work should not exceed 60 feet. Dragline operation with boom angle less than 35° is seldom advisable.

⑤ Lifting crane service only for all boom lengths over 60 feet.

MAXIMUM BOOM LENGTHS MACHINE CAN HANDLE WITHOUT ASSISTANCE

	Angle Boom	Tubular "Hi-Lite" Boom
Maximum boom machine can pick clear of ground over rear and travel ^⑥ -----	100'	90'
Maximum boom plus jib machine can pick clear of ground over rear and travel ^⑥ -----	80' + 40' jib	70' + 50' jib
Maximum boom machine can pick clear of ground on outriggers, over rear -----	100'	150'
----- over side -----	100'	140'
Maximum boom plus jib machine can pick clear of ground on outriggers, over rear -----	100' + 40' jib	120' + 50' jib
----- over side -----	100' + 40' jib	110' + 50' jib

⑥ Reduced travel speeds are recommended with maximum booms with safe speeds dependent on road conditions.

GENERAL INFORMATION ONLY