

MODEL 840 DE LOCOMOTIVE CRANE RATINGS

CRANE RATING DATA

Free crane ratings do not exceed 85% of tipping load. Outrigged crane ratings do not exceed 80% of tipping load. Clamshell and magnet ratings are in accordance with recommended industry standards and should not be exceeded. Safe loads depend on track condition, boom length, radius of operation, and proper handling, all of which must be taken into consideration by user.

"Radius in feet" is the horizontal distance at crane base level from center of rotation to a vertical line through the center of gravity of the suspended load. The weight of the load line is deducted from the capacities. Blocks, slings, buckets and other load carrying devices are considered part of the load. Maximum recommended boom length is 70 ft. for Standard boom.

Optional Deep Section Booms are available with maximum length of 100 ft.

Outrigged ratings apply to machine equipped with standard manual outriggers fully extended.

Ratings in shaded areas are based on structural limitations rather than stability.

Main load line is 1" diameter 6 x 25, FW, RRL, P, IPS, IWRC wire rope with a breaking strength of not less than 89,800 Lbs.

Ball load line is 3/4" diameter 6 x 25, FW, RRL, P, IPS, IWRC wire rope with a breaking strength of not less than 50,000 Lbs.

Designed and rated to comply with ANSI Code B30.5.

LOAD HOISTING DATA

Maximum Lifting Capacity - Lbs.	Minimum Parts Of Line
100,000	6
100,000	5
100,000	4
76,700	3
51,100	2
25,500	1

BOOM COMPOSITION

Boom Length (Feet)	25 Fl. 28S Inner	5 Fl. 28S Center	10 Fl. 28S Center	15 Fl. 28S Center	20 Fl. 28S Center	25 Fl. 28S Outer
50	1	—	—	—	—	1
55	1	1	—	—	—	1
60	1	—	1	—	—	1
65	1	—	—	1	—	1
70	1	—	—	—	1	1

Boom Length (Feet)	Radius In Feet	Boom Angle Degrees	Free Over Side	With Outriggers Set	Duty Cycle Ratings	Fl. From Boom Point
50 feet	12	82.7	82310	100000	17000	56
	15	79.2	61820	100000	17000	55
	20	73.3	43310	73740	17000	54
	25	67.2	33030	56590	17000	52
	30	60.9	26500	45680	17000	50
	35	54.0	21920	38070	17000	46
	40	46.6	18570	32490	14800	42
	45	38.0	15990	28210	12800	37
50	27.3	13970	24840	11200	29	
55 feet	13	82.3	73820	100000	17000	61
	15	80.2	61460	100000	17000	60
	20	74.9	42960	73340	17000	59
	25	69.4	32710	56220	17000	58
	30	63.7	26190	45320	17000	55
	35	57.7	21620	37720	17000	53
	40	51.3	18260	32130	14600	49
	45	44.3	15700	27870	12500	44
50	36.2	13670	24490	10900	38	
55	26.0	12070	21800	9600	30	
60 feet	13	83.0	73620	100000	17000	66
	15	81.0	61260	100000	17000	65
	20	76.2	42780	73130	17000	64
	25	71.2	32530	56020	17000	63
	30	66.1	26020	45130	17000	61
	35	60.7	21460	37530	17000	58
	40	55.1	18100	31950	14400	55
	45	49.0	15540	27800	12500	51
	50	42.3	13510	24310	10800	46
	55	34.6	11990	21530	9500	40
60	24.9	10570	19370	8400	33	
65 feet	14	80.6	66700	100000	17000	70
	15	81.7	61060	100000	17000	70
	20	77.3	42590	72910	17000	69
	25	72.7	32350	55800	17000	68
	30	68.0	25860	44900	17000	66
	35	63.2	21290	37300	17000	64
	40	58.1	17930	31760	14300	61
	45	52.7	15370	27490	12300	58
	50	46.3	13350	24120	10600	54
	55	40.5	11770	21460	9300	48
60	33.2	10410	19190	8300	42	
65	25.0	9270	17290	7500	32	
70 feet	15	82.3	60860	100000	17000	75
	20	78.2	42400	72690	17000	75
	25	74.0	32180	55600	17000	73
	30	69.6	25690	44750	17000	72
	35	65.2	21120	37140	17000	70
	40	60.6	17770	31570	14100	67
	45	55.8	15210	27300	12000	64
	50	50.7	13190	23940	10600	60
	55	45.1	11630	21290	9300	56
	60	39.0	10270	19030	8200	50
65	31.9	9130	17130	7300	43	
70	23.0	8160	15510	6500	33	

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