

# MODEL 850-80 DE LOCOMOTIVE CRANE RATINGS

## LIFT & DUTY CYCLE RATINGS

## FIVE FT. INTEGRAL JIB RATING

Boom Length Feet	Radius In Feet	Boom Angle Degrees	Free Over Side	With Outriggers Set	Duty Cycle Ratings	Roll To Boom Pt.
50'	12	82.6	100000	160000	20000	56
	15	79.1	73770	144610	20000	55
	20	73.2	51350	101760	20000	54
	25	67.1	38850	77890	20000	52
	30	60.8	30900	62690	20000	50
	35	53.9	25350	52110	20000	46
	40	46.5	21330	44400	17000	42
	45	37.9	18190	38440	14700	37
	50	27.2	15720	33740	12600	29
	55'	13	82.2	88290	160000	20000
15		80.1	73370	144150	20000	60
20		74.8	50980	101330	20000	59
25		69.3	38510	77490	20000	58
30		63.6	30580	62310	20000	55
35		57.7	25020	51730	20000	53
40		51.2	21010	44030	18800	49
45		44.2	17890	38090	14250	44
50		36.1	15420	33390	12300	38
55		25.9	13420	29590	10700	30
60'	13	82.9	87960	160000	20000	66
	15	81.0	73050	143790	20000	65
	20	76.1	50690	101000	20000	64
	25	71.1	38220	77160	20000	63
	30	66.0	30310	62000	20000	61
	35	60.6	24760	51430	20000	58
	40	55.0	20760	43750	18200	55
	45	48.9	17650	37810	14700	51
	50	42.2	15170	33170	12200	46
	55	34.5	13170	29370	10500	40
60	24.8	11530	26160	9200	31	
65'	14	82.6	72650	156620	20000	71
	15	81.7	72650	143560	20000	70
	20	77.2	50510	100800	20000	69
	25	72.6	38050	76960	20000	68
	30	67.9	30150	61820	20000	66
	35	63.1	24600	51200	20000	64
	40	58.0	20620	43680	16500	61
	45	52.7	17500	37640	14000	58
	50	46.9	15040	32950	12000	54
	55	40.5	13340	29150	10400	48
60	33.1	11390	26010	9100	42	
65	25.8	10050	23410	8000	32	
70'	15	82.3	72650	143330	20000	75
	20	78.1	50320	100580	20000	75
	25	73.9	37880	76770	20000	73
	30	69.6	29980	61620	20000	72
	35	65.1	24440	51060	19500	70
	40	60.5	20460	43400	16400	67
	45	55.7	17350	37470	13900	64
	50	50.6	14890	32780	11800	60
	55	45.1	12890	28980	10300	56
	60	38.9	11250	25840	8950	50
65	31.9	9920	23260	7600	43	
70	22.9	8730	21010	7000	33	

Boom & Jib Length	Jib Radius (Feet)	Boom Angle Degrees	Jib Rating (lbs.)	Duty Cycle Rating	Roll To Boom Pt.
50' Boom & 5' Jib	13	82.2	30000	20000	61
	15	80.1	30000	20000	60
	20	74.8	30000	20000	59
	25	69.3	30000	20000	58
	30	63.6	30000	20000	55
	35	57.7	25700	20000	53
	40	51.2	21500	17200	49
	45	44.2	18300	14600	44
	50	36.1	15800	12600	38
	55	25.9	13800	11000	28
55' Boom & 5' Jib	15	81	30000	20000	65
	20	76.1	30000	20000	64
	25	71.1	30000	20000	63
	30	66.0	30000	20000	61
	35	60.6	24700	20000	58
	40	55.0	21200	17000	55
	45	46.9	18000	14400	51
	50	42.2	15500	12400	46
	55	34.5	13500	10800	40
	60	25.9	11900	9500	28
60' Boom & 5' Jib	15	81.7	30000	20000	70
	20	77.2	30000	20000	69
	25	72.6	30000	20000	68
	30	67.9	30000	20000	66
	35	63.1	25100	20000	64
	40	58.0	20900	16700	61
	45	52.7	17700	14100	58
	50	46.9	15200	12100	54
	55	46.5	13200	10500	48
	60	33.1	11600	9200	42
65	23.8	10400	8300	32	
65' Boom & 5' Jib	15	82.3	30000	20000	75
	20	78.1	30000	20000	75
	25	73.9	30000	20000	73
	30	69.6	30000	20000	72
	35	65.1	24800	19800	70
	40	60.5	20600	16500	67
	45	55.7	17400	13900	64
	50	50.6	14900	11900	60
	55	45.1	12900	10300	56
	60	38.9	11300	9000	50
65	31.9	10100	8100	43	
70	22.9	8900	7100	33	
70' Boom & 5' Jib	15	82.8	30000	20000	80
	20	78.9	30000	20000	80
	25	75.0	30000	20000	79
	30	71.0	30000	20000	77
	35	66.9	24500	19600	75
	40	62.7	20300	16200	73
	45	58.3	17100	13700	70
	50	53.7	14800	11700	66
	55	48.8	12600	10000	63
	60	43.5	11200	8800	58
65	37.6	9800	7800	52	
70	30.7	8600	6900	44	
75	19.1	7500	6000	30	

NOTE: WITH INTEGRAL JIB REMOVED ADD APPROXIMATELY 1,000 POUNDS TO MAIN FALL CAPACITIES.