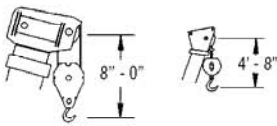


# T790

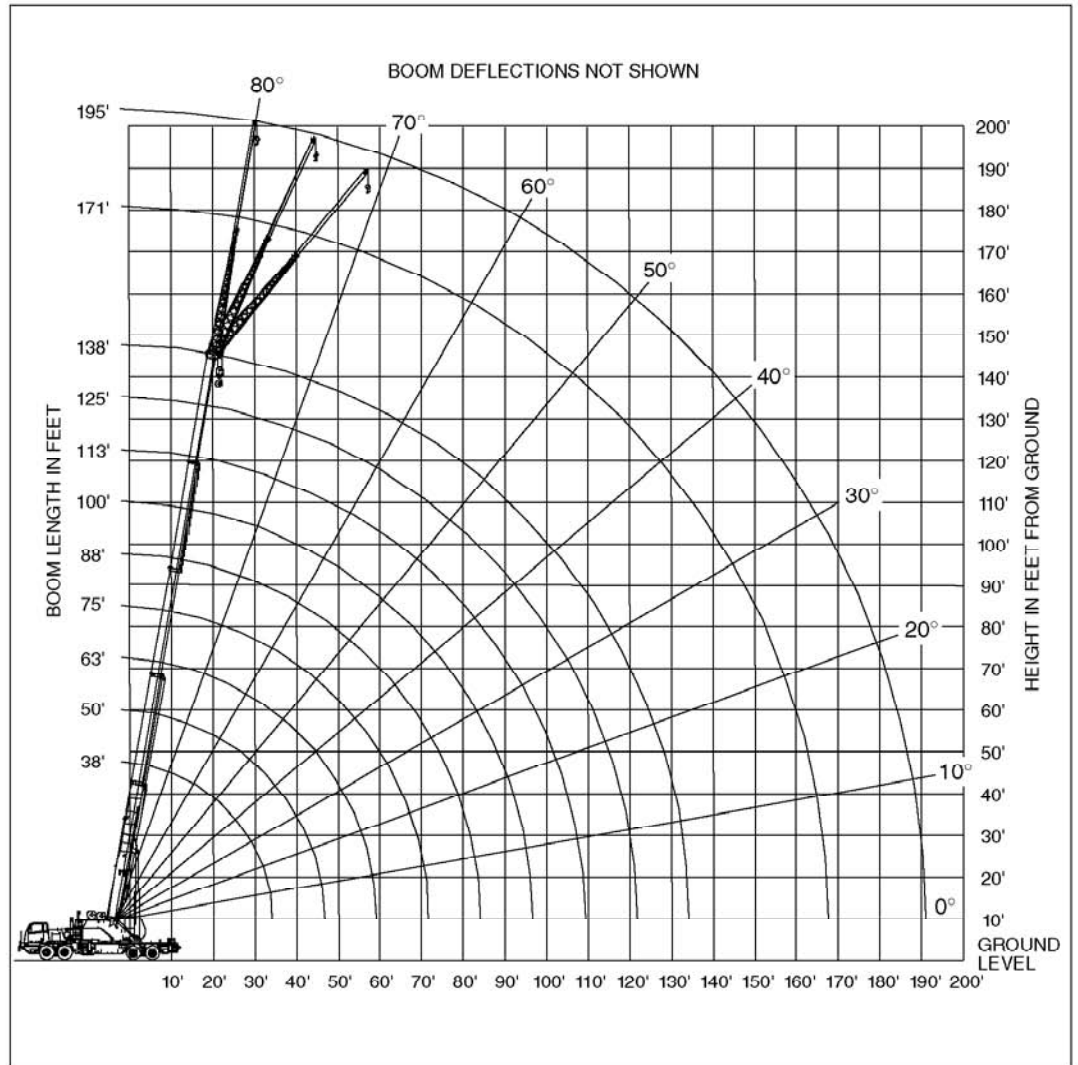
truck crane  
90 ton capacity

## range diagram & lifting capacities

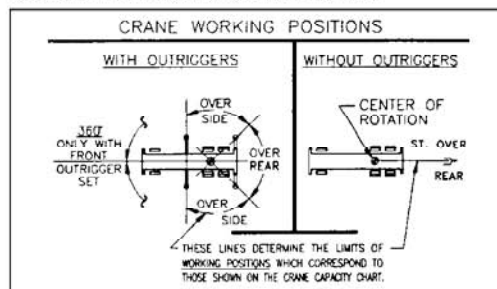


DIMENSIONS ARE FOR LARGEST FACTORY FURNISHED HOOK BLOCK AND HOOK & BALL, WITH ANTI-TWO BLOCK ACTIVATED

Range Diagram  
(38' - 138' boom)



### CRANE WORKING CONDITIONS



### REDUCTION IN MAIN BOOM CAPACITY

All Jibs in Stowed Position \_\_\_\_\_ 0 Lbs.  
Aux. Boom in Head Sheave \_\_\_\_\_ 100 Lbs.

### HOOK BLOCK WEIGHTS

12T Hook & Ball \_\_\_\_\_ 419 Lbs.  
75T Hook Block (6 Sheave) \_\_\_\_\_ 1608 Lbs.  
100T Hook Block (7 Sheave) \_\_\_\_\_ 2120 Lbs.

# Lifting Capacities – Pounds (38’ – 138’ boom)

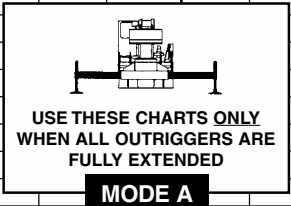
## MODEL T 790

COUNTERWEIGHT: BOOM LENGTH 38-138 FT.  
 F. BUMPER 2,500 LBS. STABILITY PCT.  
 UPPERSTRUCTURE: ON OUTRIGGERS 85%  
 W/AUX. WINCH 15,450 LBS. ON TIRES 75%  
 W/O AUX. WINCH 17,000 LBS. PCSA CLASS 10-355

**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### ON OUTRIGGERS - FULLY EXTENDED (Boom Mode A) WITH 17,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT			BOOM LENGTH 48 FT			BOOM LENGTH 63 FT			BOOM LENGTH 78 FT			BOOM LENGTH 93 FT			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	
10	71.5	18000*	18000*	75.5	11440*	11440*										10
12	68.2	145600*	145600*	73.0	11440*	114000*										12
15	63.1	113700*	113700*	69.1	112800*	112800*	74.3	100700*	100700*							15
20	54.0	81700*	81700*	62.5	80800*	80800*	69.5	78900*	78900*			67.400*	67400*			20
25	43.6	62200*	62100*	55.3	61400*	61400*	64.5	60700*	60600*	69.7	54400*	54400*	73.1	47200*	47200*	25
30	30.1	49000*	48900*	47.5	48400*	48400*	59.2	47700*	47600*	65.7	45900*	45900*	69.8	39800*	39800*	30
35				38.3	39100*	39000*	53.7	38500*	38300*	61.5	39600*	39600*	66.5	34500*	34500*	35
40				26.5	31000*	31000*	47.6	30500*	30500*	57.2	32700*	32700*	63	30300*	30300*	40
45							40.9	23900*	23900*	52.6	26200*	26200*	59.5	27100*	27100*	45
50							33.1	19000*	19000*	47.7	21300*	21300*	55.8	22700*	22700*	50
55							22.8	15000*	15000*	42.4	17500*	17500*	51.9	18900*	18900*	55
60										36.5	14300*	14300*	47.8	15800*	15800*	60
65										29.5	11800*	11800*	43.4	13300*	13300*	65
70										20.3	9600*	9600*	38.6	11100*	11100*	70
75													33.2	9300*	9300*	75
80													26.9	7700*	7600*	80
85													18.5	6300*	6100*	85



### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE (Boom Mode A)

LOAD RADIUS (FT)	BOOM LENGTH 38 FT			BOOM LENGTH 48 FT			BOOM LENGTH 63 FT			BOOM LENGTH 78 FT			BOOM LENGTH 93 FT		
	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	
34.2	40100*	39900*	44.2	24700*	24700*	59.2	12000*	12000*	74.2	7800*	7600*	89.2	5100*	4900*	

### ON OUTRIGGERS - FULLY EXTENDED (Boom Mode A) WITH 17,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 108 FT			BOOM LENGTH 123 FT			BOOM LENGTH 138 FT			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	
30	72.7	36300*	36300*	74.9	31800*	31800*				30
35	69.9	31400*	31400*	72.5	28100*	28100*	74.4	24600*	24600*	35
40	67.0	27600*	27600*	70.0	24600*	24600*	72.3	22300*	22300*	40
45	64.1	24700*	24700*	67.5	21800*	21800*	70.1	20400*	20400*	45
50	61.1	22300*	22300*	64.9	19400*	19400*	67.8	18800*	18800*	50
55	58.0	19900*	19900*	62.3	17600*	17600*	65.5	17200*	17200*	55
60	54.8	16800*	16800*	59.6	15900*	15900*	63.2	15700*	15700*	60
65	51.4	14300*	14300*	56.8	14500*	14500*	60.9	14300*	14300*	65
70	47.9	12100*	12100*	54.0	12900*	12900*	58.4	12900*	12900*	70
75	44.1	10400*	10300*	51.0	11100*	11000*	55.9	11600*	11600*	75
80	40.1	8800*	8700*	47.9	9500*	9400*	53.4	10100*	10000*	80
85	35.7	7400*	7300*	44.6	8200*	8000*	50.7	8700*	8600*	85
90	30.7	6200*	6000*	41.2	7000*	6800*	47.9	7600*	7400*	90
95	24.8	5200*	4900*	37.4	6000*	5700*	45.0	6500*	6300*	95
100	17.1	4200*	3900*	33.3	5000*	4800*	42.0	5600*	5300*	100
105				28.7	4200*	3900*	38.7	4800*	4500*	105
110				23.2	3400*	3100*	35.2	4000*	3700*	110
115				15.9	2700*	2400*	31.4	3300*	3000*	115
120							27.0	2700*	2400*	120
125							21.8	2100*	1800*	125
130							15.0	1600*	1200*	130

**MODE A**

### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE (Boom Mode A)

LOAD RADIUS (FT)	BOOM LENGTH 108 FT			BOOM LENGTH 123 FT			BOOM LENGTH 138 FT		
	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	
104.2	3300*	3000*	119.2	2000*	1700*	134.2	1000*	700*	

MODE A				
BOOM EXTENSION INFORMATION				
BOOM SECTION	38'	48'	63'	78'
II	0%	40%	100%	100%
III	0%	0%	0%	20%
IV	0%	0%	0%	20%
V	0%	0%	0%	20%
BOOM SECTION	93'	108'	123'	138'
II	100%	100%	100%	100%
III	40%	60%	80%	100%
IV	40%	60%	80%	100%
V	40%	60%	80%	100%

# Lifting Capacities – Pounds (38’ – 138’ boom)

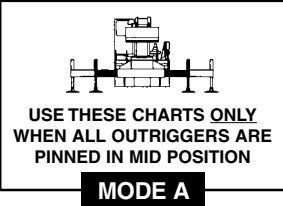
## MODEL T 790

COUNTERWEIGHT: BOOM LENGTH 38-138 FT.  
 F. BUMPER 2,500 LBS. STABILITY PCT.  
 UPPERSTRUCTURE: ON OUTRIGGERS 85%  
 W/AUX. WINCH 15,450 LBS. ON TIRES 75%  
 W/O AUX. WINCH 17,000 LBS. PCSA CLASS 10-355

**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### ON OUTRIGGERS - MID POSITION (Boom Mode A) WITH 17,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT		BOOM LENGTH 48 FT		BOOM LENGTH 63 FT		BOOM LENGTH 78 FT		BOOM LENGTH 93 FT		BOOM LENGTH 108 FT		BOOM LENGTH 123 FT		BOOM LENGTH 138 FT	
	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)
10	71.5	145700*	75.5	114400*												
12	68.2	118800*	73.0	114400*												
15	63.1	92000*	69.1	90900*	74.3	90000*										
20	54.0	61200	62.5	59600	69.5	58000	73.6	60800*								
25	43.6	38700	55.3	37600	64.5	36300	69.7	38800	73.1	40400						
30	30.1	26300	47.5	25600	59.2	24600	65.7	26900	69.8	28400	72.7	29500	74.9	30300		
35			38.3	18000	53.7	17200	61.5	19400	66.5	20900	69.9	21900	72.5	22700	74.4	23300
40			26.5	12600	47.6	12100	57.2	14300	63.0	15700	67.0	16700	70.0	17500	72.3	18100
45					40.9	8300	52.6	10600	59.5	11900	64.1	12900	67.5	13700	70.1	14200
50					33.1	5400	47.7	7700	55.8	9100	61.1	10000	64.9	10800	67.8	11300
55					22.8	3100	42.4	5400	51.9	6800	58.0	7800	62.3	8500	65.5	9000
60							36.5	3500	47.8	5000	54.8	5900	59.6	6600	63.2	7200
65									43.4	3400	51.4	4400	56.8	5100	60.9	5700
70											47.9	3100	54.0	3900	58.4	4400
75															55.9	3300

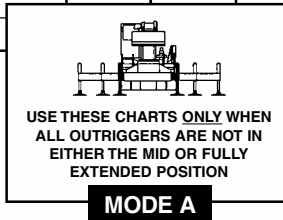


### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE (Boom Mode A)

BOOM LENGTH 38 FT	BOOM LENGTH 48 FT	BOOM LENGTH 63 FT	BOOM LENGTH 78 FT	BOOM LENGTH 93 FT	BOOM LENGTH 108 FT	BOOM LENGTH 123 FT	BOOM LENGTH 138 FT
LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
34.2	18800	44.2	8800				

### ON OUTRIGGERS - FULLY RETRACTED (Boom Mode A) WITH 17,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT		BOOM LENGTH 48 FT		BOOM LENGTH 63 FT		BOOM LENGTH 78 FT		BOOM LENGTH 93 FT		BOOM LENGTH 108 FT		LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	
10	71.5	65600	75.5	65600									10
12	68.2	46900	73.0	45200									12
15	63.1	31400	69.1	30000	74.3	28600							15
20	54.0	18100	62.5	17100	69.5	16000	73.6	18000					20
25	43.6	11000	55.3	10100	64.5	9300	69.7	11300	73.1	12600			25
30	30.1	6400	47.5	5800	59.2	5000	65.7	7000	69.8	8300	72.7	9200	30
35			38.3	2800			61.5	4100	66.5	5400	69.9	6300	35
40									63	3300	67.0	4200	40
45											64.1	2600	45



### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE (Boom Mode A)

BOOM LENGTH 38 FT	BOOM LENGTH 48 FT	BOOM LENGTH 63 FT	BOOM LENGTH 78 FT	BOOM LENGTH 93 FT	BOOM LENGTH 108 FT
LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
34.2	3200				

# Lifting Capacities – Pounds (38’ – 138’ boom)

## MODEL T 790

COUNTERWEIGHT:  
UPPERSTRUCTURE:  
W/AUX. WINCH 6,450 LBS.  
W/O AUX. WINCH 8,000 LBS.

BOOM LENGTH 38-138 FT.  
STABILITY PCT.  
ON OUTRIGGERS 85%  
ON TIRES 75%  
PCSA CLASS 10-355

**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### ON OUTRIGGERS - FULLY EXTENDED (Boom Mode A) AND WITH 8,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT			BOOM LENGTH 48 FT			BOOM LENGTH 63 FT			BOOM LENGTH 78 FT			BOOM LENGTH 93 FT			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	
10	71.5	166300*	166300*	75.5	114400*	114400*										10
12	68.2	136500*	136500*	73.0	114400*	114000*										12
15	63.1	106500*	106500*	69.1	105500*	105500*	74.3	100700*	100700*							15
20	54.0	76200*	76200*	62.5	75300*	75300*	69.5	74400*	74400*			67.6	67400*	67400*		20
25	43.6	57800*	57800*	55.3	57000*	57000*	64.5	56300*	56300*	69.7	54400*	54100*	73.1	47200*	47200*	25
30	30.1	44700*	44700*	47.5	43900*	43900*	59.2	42700*	42700*	65.7	45200*	45200*	69.8	39800*	39100*	30
35				38.3	32000*	32000*	53.7	31100*	31100*	61.5	33400*	33400*	66.5	34500*	33800*	35
40				26.5	23900*	23900*	47.6	23300*	23300*	57.2	25600*	25600*	63	27100*	27100*	40
45							40.9	17800*	17800*	52.6	20000*	20000*	59.5	21500*	21500*	45
50							33.1	13500*	13500*	47.7	15800*	15800*	55.8	17200*	17200*	50
55							22.8	10100*	9900*	42.4	12500*	12400*	51.9	13900*	13900*	55
60										36.5	9800*	9700*	47.8	11300*	11200*	60
65										29.5	7600*	7500*	43.4	9100*	9000*	65
70										20.3	5700*	5500*	38.6	7300*	7100*	70
75													33.2	5700*	5600*	75
80													26.9	4300*	4200*	80
85													18.5	3100*	3000*	85

**MODE A**

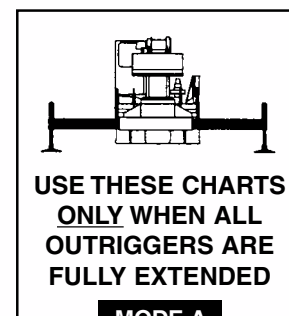
### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE (Boom Mode A)

BOOM LENGTH 38 FT			BOOM LENGTH 48 FT			BOOM LENGTH 63 FT			BOOM LENGTH 78 FT			BOOM LENGTH 93 FT		
LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)
34.2	33200	33200	44.2	18300	18300	59.2	7400	7200	74.2	4100	3900	89.2	2000	2000

### ON OUTRIGGERS - FULLY EXTENDED (Boom Mode A) AND WITH 8,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 108 FT			BOOM LENGTH 123 FT			BOOM LENGTH 138 FT			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	
30	72.7	36300*	36300*	74.9	31800*	31800*				30
35	69.9	31400*	31400*	72.5	28100*	28100*	74.4	24600*	24600*	35
40	67.0	27600*	27600*	70.0	24600*	24600*	72.3	22300*	22300*	40
45	64.1	22500*	22500*	67.5	21800*	21800*	70.1	20400*	20400*	45
50	61.1	18200*	18200*	64.9	19000*	19000*	67.8	18800*	18800*	50
55	58.0	14900*	14900*	62.3	15600*	15600*	65.5	16200*	16200*	55
60	54.8	12300*	12200*	59.6	13000*	13000*	63.2	13500*	13500*	60
65	51.4	10100*	10000*	56.8	10800*	10800*	60.9	11400*	11300*	65
70	47.9	8300*	8200*	54.0	9000*	8900*	58.4	9500*	9500*	70
75	44.1	6700*	6600*	51.0	7400*	7400*	55.9	8000*	7900*	75
80	40.1	5400*	5300*	47.9	6100*	6100*	53.4	6700*	6600*	80
85	35.7	4200*	4200*	44.6	5000*	4900*	50.7	5500*	5500*	85
90	30.7	3200*	3200*	41.2	3900*	3900*	47.9	4500*	4500*	90
95	24.8	2200*	2200*	37.4	3000*	3000*	45.0	3600*	3600*	95
100	17.1	1400*	1400*	33.3	2200*	2200*	42.0	2800*	2800*	100
105				28.7	1500*	1500*	38.7	2100*	2100*	105
110				23.2	800*	800*	35.2	1400*	1400*	110
115							31.4	800*	800*	115

**MODE A**



# Lifting Capacities – Pounds (38’ – 138’ boom)

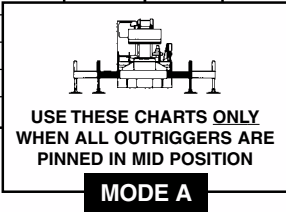
## MODEL T 790

COUNTERWEIGHT: BOOM LENGTH 38-138 FT.  
 UPPERSTRUCTURE: STABILITY PCT.  
 W/AUX. WINCH 6,450 LBS. ON OUTRIGGERS 85%  
 W/O AUX. WINCH 8,000 LBS. ON TIRES 75%  
 PCSA CLASS 10-355

**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### ON OUTRIGGERS - MID POSITION (Boom Mode A) WITH 8,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT		BOOM LENGTH 48 FT		BOOM LENGTH 63 FT		BOOM LENGTH 78 FT		BOOM LENGTH 93 FT		BOOM LENGTH 108 FT		BOOM LENGTH 123 FT		BOOM LENGTH 138 FT	
	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)
10	71.5	137300*	75.5	114400*												
12	68.2	111800*	73.0	110800*												
15	63.1	84200	69.1	81900	74.3	79700										
20	54.0	43500	62.5	41900	69.5	40300	73.6	43100								
25	43.6	26900	55.3	25700	64.5	24400	69.7	26900	73.1	28500						
30	30.1	17700	47.5	16900	59.2	15800	65.7	18100	69.8	19600	72.7	20700	74.9	21500		
35			38.3	11200	53.7	10400	61.5	12600	66.5	14100	69.9	15100	72.5	15900	74.4	16500
40			26.5	7300	47.6	6700	57.2	8900	63.0	10300	67.0	11300	70.0	12000	72.3	12600
45					40.9	3900	52.6	6100	59.5	7500	64.1	8500	67.5	9200	70.1	9800
50							47.7	4000	55.8	5400	61.1	6300	64.9	7000	67.8	7600
55									51.9	3700	58.0	4600	62.3	5300	65.5	5900
60											54.8	3300	59.6	4000	63.2	4500
65													56.8	2900	60.9	3400

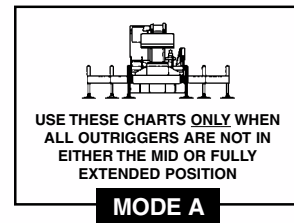


### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE (Boom Mode A)

BOOM LENGTH 38 FT	BOOM LENGTH 53 FT		BOOM LENGTH 63 FT		BOOM LENGTH 78 FT		BOOM LENGTH 93 FT		BOOM LENGTH 108 FT		BOOM LENGTH 123 FT		BOOM LENGTH 138 FT		
LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
34.2	11900	44.2	4300												

### ON OUTRIGGERS - RETRACTED (Boom Mode A) AND WITH 8,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT		BOOM LENGTH 48 FT		BOOM LENGTH 63 FT		BOOM LENGTH 78 FT		LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	
10	71.5	47800	75.5	45900					10
12	68.2	33400	73.0	31800					12
15	63.1	21500	69.1	20000	74.3	18700			15
20	54.0	11100	62.5	10100	69.5	9000	73.6	11100	20
25	43.6	5500	55.3	4700	64.5	3800	69.7	5800	25



# Lifting Capacities – Pounds (38’ – 138’ boom)

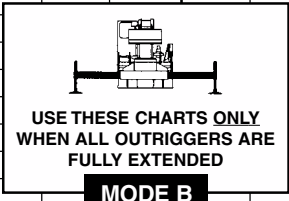
## MODEL T 790

COUNTERWEIGHT: BOOM LENGTH 38-138 FT.  
 F. BUMPER 2,500 LBS. STABILITY PCT.  
 UPPERSTRUCTURE: ON OUTRIGGERS 85%  
 W/AUX. WINCH 15,450 LBS. ON TIRES 75%  
 W/O AUX. WINCH 17,000 LBS. PCSA CLASS 10-355

**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### ON OUTRIGGERS - FULLY EXTENDED (Boom Mode B) AND WITH 17,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT			BOOM LENGTH 53 FT			BOOM LENGTH 68 FT			BOOM LENGTH 83 FT			BOOM LENGTH 98 FT			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	
10	71.5	18000*	18000*	76.9	80100*	80100*										10
12	68.2	145600*	145600*	74.6	80100*	80100*										12
15	63.1	113800*	113800*	71.2	77200*	77200*	75.5	60800*	60800*							15
20	54.0	81700*	81700*	65.3	69900*	69900*	71.1	53900*	53900*	74.6	40200*	40200*				20
25	43.6	62200*	62200*	59.1	64200*	64200*	66.5	48400*	48400*	71.0	34800*	34800*	74.0	30300*	30300*	25
30	30.1	49000*	48900*	52.4	51900*	51800*	61.7	44000*	44000*	67.2	30700*	30700*	70.9	26600*	26600*	30
35				45.0	42600*	42300*	56.8	40400*	40400*	63.4	27400*	27400*	67.7	23800*	23800*	35
40				36.3	35400	35200*	51.5	37100	36800*	59.4	24700*	24700*	64.5	21400*	21400*	40
45				25.0	28500	28500*	45.7	30400	30400*	55.3	22500*	22500*	61.2	19500*	19500*	45
50							39.3	25300	25300*	50.9	20700*	20700*	57.8	17800*	17800*	50
55							31.7	21200	21200*	46.2	19100*	19100*	54.2	16400*	16400*	55
60							21.9	18000	18000*	41.0	17700*	17700*	50.5	15100*	15100*	60
65										35.3	16400	16400*	46.5	14100*	14100*	65
70										28.5	14300	14300*	42.2	13200*	13200*	70
75										19.6	12300	12300*	37.6	12400*	12400*	75
80													32.3	11500	11500	80
85													26.1	10100	10100	85
90													18.0	8800	8800	90



### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE (Boom Mode B)

BOOM LENGTH 38 FT			BOOM LENGTH 53 FT			BOOM LENGTH 68 FT			BOOM LENGTH 83 FT			BOOM LENGTH 98 FT		
LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)
34.2	40100*	39900*	49.2	23600	23600	64.2	15400	15400	79.2	10800	10800	94.2	7800	7700

### ON OUTRIGGERS - FULLY EXTENDED (Boom Mode B) AND WITH 17,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 113 FT			BOOM LENGTH 128 FT			BOOM LENGTH 138 FT			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	
30	73.5	23500*	23500*	75.5	25500*	25500*				30
35	70.8	21000*	21000*	73.2	22800*	22800*	74.4	24600*	24600*	35
40	68.1	18900*	18900*	70.8	20700*	20700*	72.3	22300*	22300*	40
45	65.3	17000*	17000*	68.4	18900*	18900*	70.1	20400*	20400*	45
50	62.5	15300*	15300*	66.0	17100*	17100*	67.8	18800*	18800*	50
55	59.6	13900*	13900*	63.5	15600*	15600*	65.5	17200*	17200*	55
60	56.6	12800*	12800*	60.9	14300*	14200*	63.2	15700*	15700*	60
65	53.4	11700*	11700*	58.3	13200*	13200*	60.9	14300*	14300*	65
70	50.2	10700*	10700*	55.6	12200*	12200*	58.4	12800	12800*	70
75	46.7	9800*	9800*	52.8	11200*	11200*	55.9	11600	11600*	75
80	43.1	9100*	9100*	49.9	10400*	10400*	53.4	10100	10000	80
85	39.1	8400*	8400*	46.9	9500	9500	50.7	8700	8600	85
90	34.8	7800*	7800*	43.7	8300	8300	47.9	7600	7400	90
95	30.0	7300*	7300*	40.3	7300	7200	45.0	6500	6300	95
100	24.2	6800*	6800*	36.6	6300	6200	42.0	5600	5300	100
105	16.7	6400*	6400*	32.6	5500	5400	38.7	4800	4500	105
110				28.1	4700	4600	35.2	4000	3700	110
115				22.7	4000	3900	31.4	3300	3000	115
120				15.6	3300	3200	27.0	2700	2400	120
125							21.8	2100	1800	125
130							15.0	1600	1200	130

**MODE B**

### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE (Boom Mode B)

BOOM LENGTH 113 FT			BOOM LENGTH 128 FT			BOOM LENGTH 138 FT		
LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)
109.2	5700	5600	124.2	2700	2600	134.2	1000	700

MODE B BOOM EXTENSION INFORMATION			
BOOM SECTION	BOOM LENGTH		
	38'	53'	68'
II	0%	0%	0%
III	0%	20%	40%
IV	0%	20%	40%
V	0%	20%	40%
BOOM SECTION	BOOM LENGTH		
	98'	113'	128'
II	0%	0%	60%
III	80%	100%	100%
IV	80%	100%	100%
V	80%	100%	100%

# Lifting Capacities – Pounds (38’ – 138’ boom)

## MODEL T 790

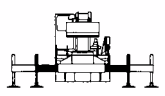
COUNTERWEIGHT:  
F. BUMPER 2,500 LBS.  
UPPERSTRUCTURE:  
W/AUX. WINCH 15,450 LBS.  
W/O AUX. WINCH 17,000 LBS.

BOOM LENGTH 38-138 FT.  
STABILITY PCT.  
ON OUTRIGGERS 85%  
ON TIRES 75%  
PCSA CLASS 10-355

**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### ON OUTRIGGERS - MID POSITION (Boom Mode B) AND WITH 17,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT		BOOM LENGTH 53 FT		BOOM LENGTH 68 FT		BOOM LENGTH 83 FT		BOOM LENGTH 98 FT		BOOM LENGTH 113 FT		BOOM LENGTH 128 FT		BOOM LENGTH 138 FT	
	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)
10	71.5	145700*	76.9	80100*												
12	68.2	118800*	74.6	80100*												
15	63.1	92000*	71.2	77200*	75.5	60800*										
20	54.0	61200	65.3	66600	71.1	53800*	74.6	40200*								
25	43.6	38700	59.1	43500	66.5	45100	71.0	34800*	74.0	30300*						
30	30.1	26300	52.4	31000	61.7	32500	67.2	30700*	70.9	26600*	73.5	23500*	75.5	25500*		
35			45.0	23100	56.8	34700	63.4	25500	67.7	23800*	70.8	21000*	73.2	22800*	74.4	23300
40			36.3	17600	51.5	19200	59.4	20100	64.5	20700	68.1	18900*	70.8	19800	72.3	18100
45			25.0	13500	45.7	15200	55.3	16200	61.2	16700	65.3	17000*	68.4	15800	70.1	14200
50					39.3	12200	50.9	13200	57.8	13700	62.5	14100	66.0	12900	67.8	11300
55					31.7	9700	46.2	10700	54.2	11400	59.6	11800	63.5	10500	65.5	9000
60					21.9	7700	41.0	8800	50.5	9400	56.6	9800	60.9	8600	63.2	7200
65							35.3	7100	46.5	7800	53.4	8300	58.3	7000	60.9	5700
70							28.5	5700	42.2	6400	50.2	6900	55.6	5700	58.4	4400
75							19.6	4500	37.6	5300	46.7	5800	52.8	4600	55.9	3300
80									32.3	4300	43.1	4800	49.9	3600		
85									26.1	3400	39.1	3900	46.9	2800		
90											34.8	3100				



**USE THESE CHARTS ONLY WHEN ALL OUTRIGGERS ARE PINNED IN MID POSITION**

**MODE B**

### ON OUTRIGGERS - MID POSITION (Boom Mode B) AND WITH 17,000 LB. MAIN COUNTERWEIGHT


BOOM LENGTH 38 FT	BOOM LENGTH 53 FT	BOOM LENGTH 68 FT	BOOM LENGTH 83 FT	BOOM LENGTH 98 FT	BOOM LENGTH 113 FT	BOOM LENGTH 128 FT	BOOM LENGTH 138 FT
LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
34.2	18800	49.2	10400	64.2	6000	79.2	3500

### ON OUTRIGGERS - FULLY RETRACTED (Boom Mode B) AND WITH 17,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT		BOOM LENGTH 53 FT		BOOM LENGTH 68 FT		BOOM LENGTH 83 FT		BOOM LENGTH 98 FT		BOOM LENGTH 113 FT		LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	
10	71.5	65600	76.9	60100*									10
12	68.2	46900	74.6	51500									12
15	63.1	31400	71.2	35100	75.5	36500							15
20	54.0	18100	65.3	21200	71.1	22500	74.6	23300					20
25	43.6	11000	59.1	13700	66.5	15100	71.0	15900	74.0	16400			25
30	30.1	6400	52.4	9000	61.7	10500	67.2	11300	70.9	11800	73.5	12200	30
35			45.0	5800	56.8	7300	63.4	8200	67.7	8700	70.8	9100	35
40			36.3	3500	51.5	5000	59.4	5900	64.5	6400	68.1	6800	40
45					45.7	3200	55.3	4100	61.2	4700	65.3	5100	45
50									57.8	3300	62.5	3700	50

### ON OUTRIGGERS - FULLY RETRACTED (Boom Mode B) AND WITH 17,000 LB. MAIN COUNTERWEIGHT

BOOM LENGTH 38 FT	BOOM LENGTH 53 FT	BOOM LENGTH 68 FT	BOOM LENGTH 83 FT	BOOM LENGTH 98 FT	BOOM LENGTH 113 FT
LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
34.2	3200				



**USE THESE CHARTS ONLY WHEN ALL OUTRIGGERS ARE NOT IN EITHER THE MID OR FULLY EXTENDED POSITION**

**MODE B**

# Lifting Capacities – Pounds (38’ – 138’ boom)

## MODEL T 790

COUNTERWEIGHT: BOOM LENGTH 38-138 FT.  
 UPPERSTRUCTURE: STABILITY PCT.  
 W/AUX. WINCH 6,450 LBS. ON OUTRIGGERS 85%  
 W/O AUX. WINCH 8,000 LBS. ON TIRES 75%  
 PCSA CLASS 10-355

**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### ON OUTRIGGERS - FULLY EXTENDED (Boom Mode B) AND WITH 8,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT			BOOM LENGTH 53 FT			BOOM LENGTH 68 FT			BOOM LENGTH 83 FT			BOOM LENGTH 98 FT			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	
10	71.5	166300*	166300*	76.9	80100*	80100*										10
12	68.2	136500*	136500*	74.6	80100*	80100*										12
15	63.1	106500*	106500*	71.2	77200*	77200*	75.5	60800*	60800*							15
20	54.0	76200*	76200*	65.3	69900*	69900*	71.1	53900*	53900*	74.6	40200*	40200*				20
25	43.6	57800*	57800*	59.1	60600*	60600*	66.5	48400*	48400*	71.0	34900*	34900*	74.0	30300*	30300*	25
30	30.1	44700	44700*	52.4	46400	46400*	61.7	44000*	44000*	67.2	30700*	30700*	70.9	26600*	26600*	30
35				45.0	35600	35600*	56.8	37200	37200*	63.4	27400*	27400*	67.7	23800*	23800*	35
40				36.3	27600	27600	51.5	29300	29300*	59.4	24700*	24700*	64.5	21400*	21400*	40
45				25.0	21800	21800	45.7	23700	23700	55.3	22500*	22500*	61.2	19500*	19500*	45
50							39.3	19400	19400	50.9	20400*	20400*	57.8	17800*	17800*	50
55							31.7	16000	16000	46.2	17100	17100*	54.2	16400*	16400*	55
60							21.9	13200	13200	41.0	14400	14400	50.5	15000	15000*	60
65										35.3	12200	12200	46.5	12800	12800*	65
70										28.5	10300	10300	42.2	11000	11000	70
75										19.6	8700	8700	37.6	9400	9400	75
80													32.3	8100	8100	80
85													26.1	6900	6900	85
90													18.0	5800	5800	90

### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE (Boom Mode B)

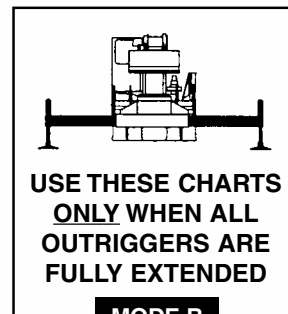
LOAD RADIUS (FT)	BOOM LENGTH 38 FT			BOOM LENGTH 53 FT			BOOM LENGTH 68 FT			BOOM LENGTH 83 FT			BOOM LENGTH 98 FT		
	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	
34.2	33200	33200	49.2	17700	17700	64.2	11000	11000	79.2	7300	7300	94.2	4900	4900	

### ON OUTRIGGERS - FULLY EXTENDED (Boom Mode B) AND WITH 8,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 113 FT			BOOM LENGTH 128 FT			BOOM LENGTH 138 FT			LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	BOOM ANGLE (DEG)	OVER REAR (LB)	360° (LB)	
30	73.5	23500*	23500*	75.5	25500*	25500*				30
35	70.8	21000*	21000*	73.2	22900*	22900*	74.4	24600*	24600*	35
40	68.1	19000*	19000*	70.8	20700*	20700*	72.3	22300*	22300*	40
45	65.3	17000*	17000*	68.4	18900*	18900*	70.1	20400*	20400*	45
50	62.5	15300*	15300*	66.0	17100*	17100*	67.8	18800*	18800*	50
55	59.6	13900*	13900*	63.5	15600*	15600*	65.5	16200	16200	55
60	56.6	12800*	12800*	60.9	14200	14200	63.2	13500	13500	60
65	53.4	11700*	11700*	58.3	12000	12000	60.9	11400	11300	65
70	50.2	10700*	10700*	55.6	10300	10300	58.4	9500	9500	70
75	46.7	9900*	9900*	52.8	8700	8700	55.9	8000	7900	75
80	43.1	8600	8600	49.9	7400	7400	53.4	6700	6600	80
85	39.1	7400	7400	46.9	6300	6300	50.7	5500	5500	85
90	34.8	6400	6400	43.7	5300	5300	47.9	4500	4500	90
95	30.0	5500	5500	40.3	4400	4400	45.0	3600	3600	95
100	24.2	4700	4700	36.6	3600	3600	42.0	2700	2800	100
105	16.7	3900	3900	32.6	2900	2900	38.7	2100	2100	105
110				28.1	2300	2200	35.2	1400	1400	110
115				22.7	1700	1600	31.4	800	800	115
				15.6	1100	1000				120

### \*\* MAXIMUM CAPACITY AT 0 DEGREE BOOM ANGLE (Boom Mode B)

LOAD RADIUS (FT)	BOOM LENGTH 113 FT			BOOM LENGTH 128 FT			BOOM LENGTH 138 FT		
	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	LOAD RADIUS (FT)	OVER REAR (LB)	360° (LB)	
109.2	3200	3200							





# Lifting Capacities – Pounds (38’ – 138’ boom)

## MODEL T 790

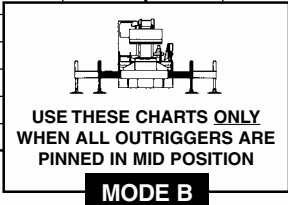
COUNTERWEIGHT:  
UPPERSTRUCTURE:  
W/AUX. WINCH 6,450 LBS.  
W/O AUX. WINCH 8,000 LBS.

BOOM LENGTH 38-138 FT.  
STABILITY PCT.  
ON OUTRIGGERS 85%  
ON TIRES 75%  
PCSA CLASS 10-355

**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### ON OUTRIGGERS - MID POSITION (Boom Mode B) AND WITH 8,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT		BOOM LENGTH 53 FT		BOOM LENGTH 68 FT		BOOM LENGTH 83 FT		BOOM LENGTH 98 FT		BOOM LENGTH 113 FT		BOOM LENGTH 128 FT		BOOM LENGTH 138 FT	
	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)
10	71.5	137300*	76.9	80100*												
12	68.2	111800*	74.6	80100*												
15	63.1	84200	71.2	77200*	75.5	60800*										
20	54.0	43500	65.3	47500	71.1	49300	74.6	40200*								
25	43.6	26900	59.1	30200	66.5	31800	71.0	32700	74.0	30300*						
30	30.1	17700	52.4	20800	61.7	22300	67.2	23200	70.9	23800	73.5	26500*	75.5	22800		
35			45.0	14800	56.8	16300	63.4	17200	67.7	17800	70.8	23500*	73.2	16800	74.4	16500
40			36.3	10600	51.5	12300	59.4	13100	64.5	13700	68.1	18300	70.8	12800	72.3	12600
45			25.0	7500	45.7	9200	55.3	10100	61.2	10700	65.3	14100	68.4	9800	70.1	9800
50					39.3	6900	50.9	7900	57.8	8400	62.5	11100	66.0	7600	67.8	7600
55					31.7	5000	46.2	6000	54.2	6600	59.6	8800	63.5	5800	65.5	5900
60					21.9	3400	41.0	4500	50.5	5200	56.6	7000	60.9	4400	60.9	4500
65							35.3	3300	46.5	3900	53.4	5600	58.3	3200	58.4	3400
70									42.2	2900	50.2	4400				
75											46.7	3400				

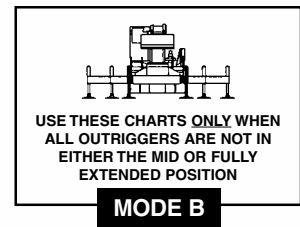


### ON OUTRIGGERS - MID POSITION (Boom Mode B) AND WITH 8,000 LB. MAIN COUNTERWEIGHT

BOOM LENGTH 38 FT		BOOM LENGTH 53 FT		BOOM LENGTH 68 FT		BOOM LENGTH 83 FT		BOOM LENGTH 98 FT		BOOM LENGTH 113 FT		BOOM LENGTH 128 FT		BOOM LENGTH 138 FT	
LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)	LOAD RADIUS (FT)	360° (LB)
34.2	11900	49.2	5000												

### ON OUTRIGGERS - RETRACTED (Boom Mode B) AND WITH 8,000 LB. MAIN COUNTERWEIGHT

LOAD RADIUS (FT)	BOOM LENGTH 38 FT		BOOM LENGTH 53 FT		BOOM LENGTH 68 FT		BOOM LENGTH 83 FT		BOOM LENGTH 98 FT		LOAD RADIUS (FT)
	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	BOOM ANGLE (DEG)	360° (LB)	
10	71.5	47800	76.9	51000							10
12	68.2	33400	74.6	36300							12
15	63.1	21500	71.2	24000	75.5	25500					15
20	54.0	11100	65.3	13800	71.1	15100	74.6	15900			20
25	43.6	5500	59.1	8300	66.5	9600	71.0	10300	74.0	10900	25
30			52.4	4900	61.7	6100	67.2	6900	70.9	7400	30
35					56.8	3800	63.4	4600	67.7	5100	35
40									64.5	3400	40



# Lifting Capacities – Pounds (38’ – 138’ boom)

## MODEL T 790

COUNTERWEIGHT:  
F. BUMPER 2,500 LBS.  
UPPERSTRUCTURE:  
W/AUX. WINCH 15,450 LBS.  
W/O AUX. WINCH 17,000 LBS.

BOOM LENGTH 38-138 FT.  
STABILITY PCT.  
ON OUTRIGGERS 85%  
ON TIRES 75%  
PCSA CLASS 10-355

**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### SIDE STOW JIB ON FULLY EXTENDED OUTRIGGERS WITH 17,000 LB. MAIN COUNTERWEIGHT

LOADED BOOM ANGLE (DEG)	32 FT OFFSETTABLE JIB / NO PULL OUT INSTALLED / FULLY EXTENDED MAIN BOOM									33 FT OFFSETTABLE JIB / PULL OUT RETRACTED / FULLY EXTENDED MAIN BOOM									LOADED BOOM ANGLE (DEG)
	0° OFFSET			15° OFFSET			30° OFFSET			0° OFFSET			15° OFFSET			30° OFFSET			
	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	
79	41	12,100*	12,100*	47	8,600*	8,600*	52	6,500*	6,500*	41	12,100*	12,100*	47	8,600*	8,600*	52	6,500*	6,500*	79
77	43	11,600*	11,600*	53	8,200*	8,200*	58	6,300*	6,300*	43	11,600*	11,600*	53	8,200*	8,200*	58	6,300*	6,300*	77
75	46	11,100*	11,100*	58	7,900*	7,900*	63	6,200*	6,200*	47	11,100*	11,100*	59	7,900*	7,900*	64	6,200*	6,200*	75
73	52	10,600*	10,600*	64	7,600*	7,600*	69	6,000*	6,000*	53	10,600*	10,600*	65	7,600*	7,600*	70	6,000*	6,000*	73
71	59	10,300*	10,300*	69	7,300*	7,300*	74	5,900*	5,900*	60	10,300*	10,300*	70	7,300*	7,300*	75	5,900*	5,900*	71
68	69	9,500*	9,500*	77	6,900*	6,900*	82	5,700*	5,700*	70	9,500*	9,500*	78	6,900*	6,900*	83	5,700*	5,700*	68
65	78	8,800*	8,800*	85	6,600*	6,600*	90	5,500*	5,500*	79	8,800*	8,800*	86	6,600*	6,600*	91	5,500*	5,500*	65
62	87	8,200*	8,200*	92	6,300*	6,300*	97	5,400*	5,400*	88	8,200*	8,200*	93	6,300*	6,300*	98	5,400*	5,400*	62
59	94	7,700*	7,700*	100	6,100*	6,100*	104	5,300*	5,300*	95	7,700*	7,700*	101	5,800*	5,800*	105	5,300*	5,300*	59
55	104	6,300*	6,300*	109	5,600*	5,500*	112	5,200*	5,200*	105	5,500*	5,500*	110	4,900*	4,700*	113	4,900*	4,800*	55
51	112	5,000*	4,900*	117	4,600*	4,400*	120	4,500*	4,300*	113	4,300*	4,200*	118	3,900*	3,700*	121	3,800*	3,600*	51
47	120	4,000*	3,800*	125	3,700*	3,500*	128	3,600*	3,400*	121	3,200*	3,100*	126	3,000*	2,800*	129	2,900*	2,700*	47
43	127	3,100*	2,900*	132	2,900*	2,800*	134	2,900*	2,700*	128	2,400*	2,200*	133	2,200*	2,100*	135	2,200*	2,000*	43
38	136	2,200*	2,000*	140	2,100*	2,000*	142	2,100*	1,900*	137	1,500*	1,300*	141	1,400*	1,300*	143	1,400*	1,200*	38
32	145	1,400*	1,200*	148	1,300*	1,000*	149	1,400*											

**Notes For Jib Capacities:**

- A. For all boom lengths less than the maximum with a jib erected, the rated loads are determined by boom angle only in the appropriate column.
- B. For boom angles not shown, use the capacity of the next lower boom angle.
- C. Listed radii are for fully extended main boom only.

**MODE A OR B**

### SIDE STOW JIB ON FULLY EXTENDED OUTRIGGERS WITH 17,000 LB. MAIN COUNTERWEIGHT

LOADED BOOM ANGLE (DEG)	57 FT OFFSETTABLE JIB / FULLY EXTENDED MAIN BOOM								
	0° OFFSET			15° OFFSET			30° OFFSET		
	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)
79	44	6,600*	6,600*	59	4,600*	4,600*	69	3,400*	3,400*
77	52	6,500*	6,500*	66	4,400*	4,400*	76	3,300*	3,300*
75	60	6,200*	6,200*	73	4,200*	4,200*	83	3,200*	3,200*
73	67	6,100*	6,100*	79	4,000*	4,000*	89	3,100*	3,100*
71	75	5,700*	5,700*	86	3,800*	3,800*	96	3,000*	3,000*
68	85	5,200*	5,200*	95	3,600*	3,600*	105	2,900*	2,900*
65	95	4,800*	4,800*	104	3,400*	3,400*	114	2,800*	2,800*
62	104	4,400*	4,400*	112	3,300*	3,300*	122	2,700*	2,700*
59	112	4,100*	4,100*	120	3,100*	3,100*	129	2,700*	2,700*
55	123	3,800*	3,800*	130	3,000*	3,000*	139	2,600*	2,600*
51	133	3,400*	3,200*	140	2,800*	2,800*	147	2,500*	2,500*
47	142	2,400*	2,300*	148	2,400*	2,200*	155	2,400*	2,000*
43	149	1,800*	1,700*	156	1,700*	1,500*	162	1,700*	1,500*
38	158	1,200*							

**Notes For Jib Capacities:**

- A. For all boom lengths less than the maximum with a jib erected, the rated loads are determined by boom angle only in the appropriate column.
- B. For boom angles not shown, use the capacity of the next lower boom angle.
- C. Listed radii are for fully extended main boom only.

### ON TIRES WITH 17,000 LB. MAIN CWT + 2,500 LB. FRONT CWT - **MODE B ONLY**

RADIUS (FT)	MAX BOOM LENGTH (FT)	ALL		
		STATIONARY	PICK & CARRY	
		STATIC	CREEP	2.5
STRAIGHT OVER REAR				
15	38	50,800	50,800	50,800
20	53	35,200	35,200	35,200
25	53	24,400	24,400	24,400
30	53	15,000	15,000	15,000
35	53	12,700	12,700	12,700
40	53	10,600	10,600	10,600
45	68	8,900	8,900	8,900
50	68	7,400	7,400	7,400
55	68	6,100	6,100	6,100
60	68	5,000	5,000	5,000
65	83	4,100	4,100	4,100
70	83	3,400	3,400	3,400
75	83	2,800	2,800	2,800
80	98	2,300	2,300	2,300
85	98	1,800	1,800	1,800
90	98	1,400	1,400	1,400

**Notes For On Tire Capacities:**

**LIFTING ON TIRES MUST BE PERFORMED WITH THE BOOM IN MODE B**

- A. For Pick and Carry operations, boom must be centered over the rear of the crane with swing brake and lock engaged. Use minimum boom point height and keep load close to ground surface. Travel must be on smooth level surface.
- B. The load should be restrained from swinging. NO ON TIRE OPERATION WITH JIB ERECTED.
- C. Without outriggers, never maneuver the boom beyond listed load radii for applicable tires to ensure stability.
- D. Creep speed is crane movement of less than 200 Ft. (61m) in a 30 minute period and not exceeding 1.0 mph (1.6 km/h).
- E. Refer to General Notes for additional information.

# Lifting Capacities – Pounds (38’ – 138’ boom)

## MODEL T 790

COUNTERWEIGHT: BOOM LENGTH 38-138 FT.  
 F. BUMPER 2,500 LBS. STABILITY PCT.  
 UPPERSTRUCTURE: ON OUTRIGGERS 85%  
 W/AUX. WINCH 15,450 LBS. ON TIRES 75%  
 W/O AUX. WINCH 17,000 LBS. PCSA CLASS 10-355

**CAUTION:** Do not use this specification sheet as a load rating chart. The format of data is not consistent with the machine chart and may be subject to change.

### SIDE STOW JIB ON FULLY EXTENDED OUTRIGGERS WITH 17,000 LB. MAIN COUNTERWEIGHT 113 FT. MAIN BOOM (MODE B - SECTION II FULLY RETRACTED)

LOADED BOOM ANGLE (DEG)	32 FT OFFSETTABLE JIB / PULL OUT RETRACTED									33 FT OFFSETTABLE JIB / PULL OUT RETRACTED									LOADED BOOM ANGLE (DEG)
	0° OFFSET			15° OFFSET			30° OFFSET			0° OFFSET			15° OFFSET			30° OFFSET			
	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	
79	27	12,100*	12,100*	38	8,600*	8,600*	45	6,500*	6,500*	27	12,100*	12,100*	38	8,600*	8,600*	45	6,500*	6,500*	79
77	33	11,600*	11,600*	43	8,200*	8,200*	51	6,300*	6,300*	33	11,600*	11,600*	43	8,200*	8,200*	51	6,300*	6,300*	77
75	38	11,100*	11,100*	48	7,900*	7,900*	55	6,200*	6,200*	39	11,100*	11,100*	49	7,900*	7,900*	56	6,200*	6,200*	75
73	43	10,600*	10,600*	53	7,600*	7,600*	60	6,000*	6,000*	44	10,600*	10,600*	54	7,600*	7,600*	61	6,000*	6,000*	73
71	49	10,300*	10,300*	58	7,300*	7,300*	64	5,900*	5,900*	50	10,300*	10,300*	59	7,300*	7,300*	65	5,900*	5,900*	71
68	57	9,500*	9,500*	65	6,900*	6,900*	71	5,700*	5,700*	58	9,500*	9,500*	66	6,900*	6,900*	72	5,700*	5,700*	68
65	64	8,800*	8,800*	72	6,600*	6,600*	78	5,500*	5,500*	65	8,800*	8,800*	73	6,600*	6,600*	79	5,500*	5,500*	65
62	72	8,200*	8,200*	78	6,300*	6,300*	84	5,400*	5,400*	73	8,200*	8,200*	79	6,300*	6,300*	85	5,400*	5,400*	62
59	79	7,700*	7,700*	85	6,100*	6,100*	90	5,300*	5,300*	80	7,700*	7,700*	86	6,100*	6,100*	91	5,300*	5,300*	59
55	87	7,100*	7,100*	93	5,800*	5,800*	97	5,200*	5,200*	88	7,100*	7,100*	94	5,800*	5,800*	98	5,200*	5,200*	55
51	95	6,700*	6,700*	100	5,600*	5,600*	104	5,100*	5,100*	96	6,700*	6,700*	101	5,600*	5,600*	105	5,100*	5,100*	51
47	103	6,300*	6,300*	107	5,400*	5,400*	110	5,100*	5,100*	104	6,300*	6,300*	108	5,400*	5,400*	111	5,100*	5,100*	47
43	109	6,000*	6,000*	113	5,300*	5,300*	115	5,000*	5,000*	110	6,000*	6,000*	114	5,300*	5,300*	116	5,000*	5,000*	43
38	117	5,700*	5,700*	120	5,200*	5,200*	122	5,000*	5,000*	118	5,300*	5,600*	121	5,200*	5,000*	123	5,000*	5,000*	38
32	125	5,200*	5,100*	127	5,100*	4,900*	128	4,900*	4,900*	126	4,500*	4,400*	128	4,400*	4,200*	129	4,500*	4,300*	32
25	131	4,400*	4,200*	132	4,400*	4,200*				133	3,700*	3,500*	134	3,700*	3,500*				
17	137	3,800*	3,800*	138	3,800*	3,600*				139	3,100*	2,900*	140	3,100*	2,900*				
0	141	3,500*	3,300*							143	2,800*	2,600*							

**MODE B**

- Notes For Jib Capacities:**  
 A. For all boom lengths less than the maximum with a jib erected, the rated loads are determined by boom angle only in the appropriate column.  
 B. For boom angles not shown, use the capacity of the next lower boom angle.  
 C. Listed radii are for fully extended main boom only.

### SIDE STOW JIB ON FULLY EXTENDED OUTRIGGERS WITH 17,000 LB. MAIN COUNTERWEIGHT 113 FT. MAIN BOOM (MODE B - SECTION II FULLY RETRACTED)

LOADED BOOM ANGLE (DEG)	57 FT OFFSETTABLE JIB								
	0° OFFSET			15° OFFSET			30° OFFSET		
	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)	(REF) LOAD RADIUS (FT)	REAR ONLY (LB)	360° (LB)
79	36	6,600*	6,600*	52	4,600*	4,600*	64	3,400*	3,400*
77	43	6,500*	6,500*	58	4,400*	4,400*	69	3,300*	3,300*
75	49	6,200*	6,200*	63	4,200*	4,200*	75	3,200*	3,200*
73	56	6,100*	6,100*	69	4,000*	4,000*	80	3,100*	3,100*
71	62	5,700*	5,700*	74	3,800*	3,800*	85	3,000*	3,000*
68	71	5,200*	5,200*	82	3,600*	3,600*	92	2,900*	2,900*
65	79	4,800*	4,800*	90	3,400*	3,400*	99	2,800*	2,800*
62	87	4,400*	4,400*	97	3,300*	3,300*	106	2,700*	2,700*
59	95	4,100*	4,100*	104	3,100*	3,100*	112	2,700*	2,700*
55	104	3,800*	3,800*	112	3,000*	3,000*	120	2,600*	2,600*
51	113	3,500*	3,500*	120	2,800*	2,800*	127	2,500*	2,500*
47	121	3,300*	3,300*	127	2,700*	2,700*	133	2,500*	2,500*
43	128	3,100*	3,100*	134	2,600*	2,600*	138	2,500*	2,500*
38	136	2,900*	2,900*	141	2,600*	2,600*	145	2,500*	2,500*
32	145	2,700*	2,700*	148	2,500*	2,500*	150	2,500*	2,500*
25	153	2,500*	2,500*	155	2,500*	2,500*			
17	160	2,500*	2,500*	161	2,500*	2,500*			
0	166	2,500*	1,700*						

**MODE B**

### MAXIMUM PERMISSIBLE HOIST LINE LOAD

LINE PARTS	1	2	3	4	5	6	7
MAIN & AUX. HOIST	13,800	27,600	41,400	55,200	69,000	82,800	96,600
LINE PARTS	8	9	10	11	12	13*	14*
MAIN & AUX. HOIST	110,400	124,200	138,000	151,800	165,600	179,400	180,000

WIRE ROPE: 3/4" ROTATION RESISTANT 34 X 7 COMPACTED STRAND, GRADE 2160, MINIMUM BREAKING STRENGTH 34.5 TONS.

3/4" 6 X 19 OR 6 X 37 IPS, IWRC, PREFORMED RIGHT REGULAR LAY MINIMUM BREAKING STRENGTH 25.6 TONS. WEIGHT 1.04 LBS/FT

\* FOR REEVING REQUIRING 13 OR 14 PARTS OF LINE. THE FIRST PART OF LINE MAY BE ROUTED OVER THE AUXILIARY BOOM HEAD SHEAVE. THIS REEVING MAY ONLY BE USED AT MINIMUM RATED RADIUS. DO NOT PULL THE HOOK BLOCK CLOSER THAN 10 FT. FROM THE BOOM HEAD.

# GENERAL NOTES

## GENERAL

1. Rated loads as shown on Lift Charts pertain to this machine as originally manufactured and equipped. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance of this machine shall be in compliance with the information in the Operator's, Parts and Safety Manuals supplied with this machine. If these manuals are missing, order replacements from the manufacturer through your distributor.
3. These warnings do not constitute all of the operating conditions for the crane. The operator and job site supervision must read the OPERATORS MANUAL, CIMA SAFETY MANUAL, APPLICABLE OSHA REGULATIONS, AND SOCIETY OF MECHANICAL ENGINEERS (ASME) SAFETY STANDARDS FOR CRANES.
4. This crane and its load ratings are in accordance with POWER CRANE & SHOVEL ASSOCIATION, STANDARD NO. 4, SAE CRANE LOAD STABILITY TEST CODE J765, SAE METHOD OF TEST FOR CRANE STRUCTURE J1063 AND APPLICABLE SAFETY CODE FOR CRANES, DERRICKS AND HOISTS, ASME/ANSI B30.5.

## DEFINITIONS

1. **LOAD RADIUS** – The horizontal distance from the axis of rotation before loading to the center of the vertical hoist line or tackle with a load applied.
2. **LOADED BOOM ANGLE** – It is the angle between the boom base section and the horizontal, after lifting the rated load at the rated radius. The boom angle before loading should be greater to account for deflections. The loaded boom angle combined with boom length give only an approximation of the operating radius.
3. **WORKING AREA** – Areas measured in a circular arc about the centerline of rotation as shown in the diagram.
4. **FREELY SUSPENDED LOAD** – Load hanging free with no direct external force applied except by the hoist rope.
5. **SIDE LOAD** – Horizontal force applied to the lifted load either on the ground or in the air.
6. **EXTRA-CAUTION ZONE** – Tipping can occur with some boom/jib combinations at radii within this area without any load on the hook.
7. **BOOM SIDE OF CRANE** – The side of the crane over which the boom is positioned when in an OVER SIDE working position.

## SET-UP

1. Crane load ratings are based on the crane being leveled and standing on a firm, uniform supporting surface.
2. Crane load ratings on outriggers are based on all outrigger beams being fully extended or in the case of partial extension ratings mechanically pinned in the appropriate position, and the tires free of the supporting surface.
3. Crane load ratings on tires depend on appropriate inflation pressure and the tire conditions. Caution must be exercised when increasing air pressures in tires. Consult Operator's Manual for precautions.
4. Use of jibs, lattice-type boom extensions, or fourth section pullouts extended is not permitted for pick and carry operations.
5. Consult appropriate section of the Operator's and Service Manual for more exact description of hoist line reeving.
6. The use of more parts of line than required by the load may result in having insufficient rope to allow the hook block to reach the ground.
7. Properly maintained wire rope is essential for safe crane operation. Consult Operator's Manual for proper maintenance and inspection requirements.
8. When spin-resistant wire rope is used, the allowable rope loading shall be the breaking strength divided by five (5), unless otherwise specified by the wire rope manufacturer.
9. The boom angle must be between 74° and 48° unless the boom is positioned in-line with the crane's chassis or the outriggers are extended. Failure to observe this warning may result in loss of stability.

## OPERATION

1. **CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.**

## OPERATION (continued)

2. When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
3. Do not operate at longer radii than those listed on the applicable load rating chart (cross hatched areas shown on range diagrams).
4. The boom angles shown on the Capacity Chart give an approximation of the operating radius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection. It may be necessary to retract the boom if maximum boom angle is insufficient to maintain rated radius.
5. Rated loads include the weight of hook block, slings, and auxiliary lifting devices. Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted.  
When lifting over the jib the weight of any hook block, slings, and auxiliary lifting devices at the boom head must be added to the load.  
Rated lifting capacities are based on correct reeving. Deduction must be made for excessive reeving. Any reeving over the minimum required, (see Hoist Tackle Chart), is considered excessive and must be accounted for. Use Working Range Diagram to estimate the extra feet (meters) of wire rope. Deduct for each foot of excessive wire rope before attempting to lift a load.  
When jibs are erected but unused add three (3) times the weight of any hook block, slings, and auxiliary lifting devices at the jib head to the load.
6. Rated loads do not exceed 85% on outriggers or 75% on tires, of the tipping load as determined by SAE Crane Stability Test Code J765. Structural strength ratings in chart are indicated with an asterisk (\*).
7. Rated loads are based on freely suspended loads. No attempt shall be made to drag a load horizontally on the ground in any direction.
8. The user shall operate at reduced ratings to allow for adverse job conditions, such as: Soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electric wires, etc., (side pull on boom or jib is hazardous). Derating of the cranes lifting capacity is required when wind speed exceeds 20 MPH. The center of the lifted load must never be allowed to move more than 3" feet off the center line of the base boom section due to the effects of wind, inertia, or any combination of the two.  
\*\*Use 2 feet off the center line of the base boom for a two section boom, 3 feet for a three section boom, 4 feet for a four section boom, or 5 feet for a five section boom.
9. The maximum load which can be telescoped is not definable, because of variations in loadings and crane maintenance, but it is permissible to attempt retraction and extension if load ratings are not exceeded.
10. Load ratings are dependent upon the crane being maintained according to manufacturer's specifications.
11. It is recommended that load handling devices, including hooks, and hook blocks, be kept away from boom head at all times.
12. **FOR TRUCK CRANES ONLY:** 360° capacities apply only to machines equipped with a front outrigger jack and all five (5) outrigger jacks properly set. If the front (5th) outrigger jack is not properly set, the work area is restricted to the over side and over rear areas as shown on the Crane Working Positions diagram. Use the 360° load ratings in the overside work areas.
13. Do not lift with outrigger beams positioned between the fully extended and intermediate (pinned) positions.
14. Truck Cranes not equipped with equalizing (bogie) beams between the rear axles may not be used for lifting "on tires". Truck Cranes equipped with equalizing beams and rear air suspension should "dump" the air before lifting "on tires".

## CLAMSHELL, MAGNET, AND CONCRETE BUCKET SERVICE

1. Maximum boom length for clamshell and magnet service is 50 feet.
2. Weight of clamshell or magnet, plus contents are not to exceed 6,000 pounds or 90% of rated lifting capacities, whichever is less. For concrete bucket operation, weight of bucket and load must not exceed 90% of rated lifting capacity.

WE RESERVE THE RIGHT TO AMEND THESE SPECIFICATIONS AT ANY TIME WITHOUT NOTICE. THE ONLY WARRANTY APPLICABLE IS OUR STANDARD WRITTEN WARRANTY APPLICABLE TO THE PARTICULAR PRODUCT AND SALE. WE MAKE NO OTHER WARRANTY, EXPRESSED OR IMPLIED.



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