PCSA CLASS 10 — 220 full powered boom

with outriggers fully extended and set

rated crane loads in pounds — boom in 360° and over front work areas

BOOM LENGTH (FEET) ALL SECTIONS EQUALLY EXTENDED

LOAD RADIUS (FEET)	36 LOADED BOOM ANGLE △°	36 RATED LOAD POUNDS 360°	36 RATED LOAD POUNDS FRONT	42 LOADED BOOM ANGLE △°	42 RATED LOAD POUNDS 360°	42 RATED LOAD POUNDS FRONT	49 LOADED BOOM ANGLE △°	49 RATED LOAD POUNDS 360°	49 RATED LOAD POUNDS FRONT	62 LOADED BOOM ANGLE △°	62 RATED LOAD POUNDS 360°	62 RATED LOAD POUNDS FRONT
10	70	132000	132000	73	121000	121000	76	113000	113000	79	96000	96000
12	67	115000	115000	70	110000	110000	73	104000	104000	77	91000	91000
15	61	94000	94000	66	89000	89000	70	87000	87000	74	83000	83000
20	51	68000	68000	58	67000	67000	63	66000	66000	69	64000	64000
25	39	51000	51000	49	50000	50000	56	49000	49000	64	48000	48000
30	19	38100	41000	38	38100	41000	48	38100	41000	59	38100	41000
35	TELESCOPE CYLINDERS MUST BE FULLY RETRACTED AND AGAINST STOPS			22	28300	34000	39	28300	34000	53	28300	34000
40							27	22000	27600	47	22000	27600
45										39	17700	22200
50										31	14100	17800
55										18	11300	14500
60												
65												
70												
80												
90												
100												
110												
120												
130												

LOAD RADIUS (FEET)	75 LOADED BOOM ANGLE △°	75 RATED LOAD POUNDS 360°	75 RATED LOAD POUNDS FRONT	88 LOADED BOOM ANGLE △°	88 RATED LOAD POUNDS 360°	88 RATED LOAD POUNDS FRONT	101 LOADED BOOM ANGLE △°	101 RATED LOAD POUNDS 360°	101 RATED LOAD POUNDS FRONT	114 LOADED BOOM ANGLE △°	114 RATED LOAD POUNDS 360°	114 RATED LOAD POUNDS FRONT
10												
12	80	84000	84000							SEE WARNING NOTE 2		
15	78	76000	76000									
20	74	63000	63000	77	51000	51000	79	47000	47000	80	33000	33000
25	70	47000	47000	73	43000	43000	76	39000	39000	78	29000	29000
30	65	38100	41000	70	36800	36800	73	33200	33200	75	25000	25000
35	61	28300	34000	66	28300	31900	70	28300	28600	73	22000	22000
40	56	22000	27600	62	22000	27600	67	22000	24700	70	19000	19000
45	51	17700	22200	68	17700	22200	64	17700	22000	67	16300	16300
50	46	14100	17800	54	14100	17800	60	14100	17800	64	14100	14400
55	40	11300	14500	50	11300	14500	57	11300	14500	61	11300	13400
60	33	9400	12200	45	9400	12200	53	9400	12200	58	9400	11600
65	24	7600	10100	40	7600	10100	49	7600	10100	55	7600	10100
70				34	6300	8600	45	6300	8600	52	6300	8600
80				18	3900	5800	36	3900	5800	45	3900	5800
90							23	2300	3900	36	2300	3900
100										26	1000	2400
110												
120												
130												

LOAD RADIUS (FEET)	LATTICE EXTENSION WITH 101 FOOT BOOM: 134 LOADED BOOM ANGLE △°	134 RATED LOAD POUNDS 360°	134 RATED LOAD POUNDS FRONT	LATTICE EXTENSION WITH 114 FOOT BOOM: 147 LOADED BOOM ANGLE △°	147 RATED LOAD POUNDS 360°	147 RATED LOAD POUNDS FRONT
10						
12	SEE WARNING NOTES 1 AND 3					
15				SEE WARNING NOTES 1 AND 3		
20						
25	80	18000	18000			
30	78	14000	14000	79	12000	12000
35	76	12000	12000	77	11000	11000
40	74	11000	11000	75	9700	9700
45	71	10000	10000	73	9200	9200
50	69	9200	9200	71	8500	8500
55	67	8500	8500	69	7900	7900
60	64	8000	8000	67	7400	7400
65	62	7500	7500	65	6900	6900
70	59	7000	7000	63	6500	6500
80	54	6000	6000	58	5800	5800
90	48	4500	5500	53	4300	4900
100	42	3100	4500	48	2900	4100
110	34	2000	3200	42	1800	3000
120	24	—	2200	35	—	1900
130				27	—	1000

RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.

WHEN LIFTING A LOAD, ALL SECTIONS OF THE BOOM MUST BE EXTENDED EQUALLY.

WARNING:

1. FOR BOOM LENGTHS LESS THAN 134 FEET AND LESS THAN 147 FEET, THE RATED LOADS ARE DETERMINED BY BOOM ANGLE ONLY IN THE COLUMNS HEADED BY 134 FOOT BOOM AND 147 FOOT BOOM. FOR ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.
2. DO NOT EXCEED 100 FOOT RADIUS OVERSIDE ON 114 FOOT BOOM AS TIPPING WILL OCCUR.
3. DO NOT EXCEED 110 FOOT RADIUS OVERSIDE ON 134 OR 147 FOOT BOOM AS TIPPING WILL OCCUR.

BOOM RATINGS MUST BE REDUCED BY WEIGHT OF BOOM ATTACHMENTS AND LOAD HANDLING DEVICES. SEE TABLE.

32R517

"on rubber"

rated crane loads in pounds — minimum boom (75′ maximum)

RATINGS FOR FULL POWER BOOM: STATIONARY 360°	OVER FRONT: STATIONARY & CREEP	OVER FRONT: 2½ MPH	LOAD RADIUS (FEET)	RATINGS FOR MANUAL BOOM: STATIONARY 360°	OVER FRONT: STATIONARY & CREEP	OVER FRONT: 2½ MPH
44200	70900	54800	10	45100	71700	55900
35600	62200	46800	12	36300	63100	47900
26400	52300	37800	15	27200	53300	38900
16300	40300	27600	20	16700	41100	28700
9800	30700	20800	25	10400	31500	21900
5700	21100	15900	30	6400	21800	17000
3400	15800	12700	35	3800	15800	13600
1800	11900	10200	40	2000	11900	10900
—	9400	8300	45	—	6900	6900
—	7000	6500	50	—	5100	5100
—	4000	3900	60	—	3800	3800

32U1783 32U1782

WARNING: "WITHOUT OUTRIGGER" LIFTS WITH JIB OR BOOM EXTENSION IN WORKING POSITION ARE PROHIBITED.

TO HELP PREVENT TIPPING CONDITIONS WHEN "LIFTING ON RUBBER", IT IS RECOMMENDED THAT —

1. MINIMUM BOOM LENGTHS BE USED, NOT EXCEEDING 75 FEET.
2. OUTRIGGERS BE EXTENDED AS FAR AS POSSIBLE AND CLEAR OF GROUND.

WHEN LIFTING A LOAD, ALL SECTIONS OF THE BOOM MUST BE EXTENDED EQUALLY.

WARNING: DO NOT EXCEED RATED LOAD AT RADIUS SHOWN OR A TIPPING CONDITION WILL OCCUR.

LOAD RATINGS WITHOUT OUTRIGGERS DEPEND ON TIRE CAPACITY AND CONDITION, INFLATED PER TABLE, AND APPLY ONLY WHEN REAR AXLE LOCKOUTS ARE ENGAGED.

TIRE INFLATION: SIZE	STAT.	CREEP	2½ MPH
29.5x25-28 PR	75 PSI	75 PSI	65 PSI

WHEN TRANSPORTING A LOAD, MACHINE MUST BE ON FIRM, LEVEL SURFACE WITH MECHANICAL HOUSELOCK ENGAGED AND LOAD CENTERED OVER FRONT OF MACHINE AND RESTRAINED FROM SWINGING. DO NOT EXCEED 2½ MPH (4 KMPH) VEHICLE SPEED.

CREEP IS MOTION FOR LESS THAN 200 FT. IN A 30 MIN. PERIOD AND NOT EXCEEDING 1 MPH.

RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.

STABILITY RATINGS DO NOT EXCEED 85% OF TIPPING LOADS WITH AUXILIARY SHEAVE ON BOOM POINT AND STOWED BOOM EXTENSION.

Courtesy of CraneMarket.com