

WARNINGS:

ADDED BOOM ANGLES AT SPECIFIED BOOM LENGTHS GIVE ONLY AN APPROXIMATION OF THE OPERATING RADIUS. THE BOOM ANGLE BEFORE LOADING SHOULD BE GREATER TO COUNT FOR DEFLECTIONS. DO NOT EXCEED THE OPERATING RADIUS FOR RATED LOADS.

SITING OR OPERATION OF POWERED BOOM LENGTHS AT DI BEYOND THE MAXIMUMS OR MINIMUMS SHOWN, IS NOT INTENDED OR APPROVED.

SITING OR OPERATION OF LATTICE EXTENSIONS AT OM ANGLES BEYOND THE MAXIMUMS OR MINIMUMS SHOWN, NOT INTENDED OR APPROVED.

R POWERED BOOM LENGTHS NOT SHOWN, USE RATING OF XT LONGER POWERED BOOM. FOR LOAD RADII NOT SHOWN, E RATING OF NEXT LONGER RADIUS.

ANE LOAD RATINGS ON OUTRIGGERS ARE BASED ON FREE SUSPENDED LOADS WITH THE MACHINE LEVELED AND ANDING ON A FIRM UNIFORM SUPPORTING SURFACE. ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZ- ITALLY ON THE GROUND IN ANY DIRECTION.

ACTUAL WORKING LOADS DEPEND ON SUPPORTING SUR- CE, WIND, AND OTHER FACTORS AFFECTING STABILITY, ZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL, ID PROPER HANDLING, ALL OF WHICH MUST BE TAKEN TO ACCOUNT BY THE OPERATOR.

E MAXIMUM LOAD WHICH MAY BE TELESCOPED IS LIMITED HYDRAULIC PRESSURE, BOOM ANGLE, AND POWERED BOOM BRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE ANY AD WITHIN THE LIMITS OF THE LOAD RATING CHART.

EN LIFTING A LOAD ALL SECTIONS OF POWERED BOOM IST BE EQUALLY EXTENDED WITHIN ONE FOOT.

INITIATIONS:

PERATING RADIUS IS THE HORIZONTAL DISTANCE FROM HE AXIS OF ROTATION BEFORE LOADING TO THE CENTER F THE VERTICAL HOIST LINE OR TACKLE WITH LOAD PPLIED.

ADDED BOOM ANGLE, AS SHOWN IN COLUMN HEADED BY 4°. THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND ONGINTUDINAL AXES OF THE BOOM BASE AFTER LIFTING ATED LOAD AT RATED RADIUS.



32R1010

DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS

DESCRIPTION			WITHOUT HOOK BLOCK ON BOOM POINT	HOOK BLOCK ON POWERED BOOM POINT			
				8.5 - 20 TON	65 TON	8.5 - 20 TON WITH AUXILIARY SHEAVE	65 TON WITH AUXILIARY SHEAVE
HOISING LOAD FROM POWERED BOOM	HOOK BLOCK WEIGHT		—	580	1130	775	1325
	39 FT. LATTICE EXTENSION	STOWED	—	950	1500	1150	1700
		ERECTED ONLY	—	4000	4550	4200	4750
		8.5-15 TON BALL	—	5650	6200	5850	6400
		20 TON BLOCK	—	6050	6600	6250	6800
	40 FT. LATTICE EXTENSION	STOWED	—	850	1400	1050	1600
		ERECTED ONLY	—	5700	6250	5900	6450
		8.5-15 TON BALL	—	7400	7900	7550	8100
		20 TON BLOCK	—	7800	8300	7950	8500
	60 FT. LATTICE EXTENSION	ERECTED ONLY	—	5700	6250	5900	6450
		8.5-15 TON BALL	—	7800	8350	8000	8550
		20 TON BLOCK	—	8300	8850	8500	9050
HOISING LOAD FROM EXTENSION		39 FT. LATTICE EXTENSION	8.5-15 TON BALL	470	800	1100	900
	20 TON BLOCK		580	900	1200	1000	1300
	40 FT. LATTICE EXTENSION	8.5-15 TON BALL	470	800	1100	900	1200
		20 TON BLOCK	580	900	1200	1000	1300
	60 FT. LATTICE EXTENSION	8.5-15 TON BALL	470	750	1000	850	1100
		20 TON BLOCK	580	850	1100	950	1200

NOTE: THESE LOAD DEDUCTIONS APPLY ONLY TO P&H SUPPLIED EQUIPMENT.
(SEE INFORMATION NOTE #3)

NOTE: THESE LOAD DEDUCTIONS APPLY ONLY TO P&H SUPPLIED EQUIPMENT. (SEE INFORMATION NOTE #3)

MAIN HOIST REEVING

3/4 DIA. WIRE ROPE BREAKING STRENGTH 58,800 LBS. 6 X 25 FW IWRC

PART OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD	15000	30000	45000	60000	75000	90000	105000	120000	130000	-

AUXILIARY HOIST REEVING

3/4 DIA. WIRE ROPE BREAKING STRENGTH 51,800 LBS. 8 X 19 IWRC

5/8 DIA. WIRE ROPE BREAKING STRENGTH 41,200 LBS. 6 X 25 FW IWRC

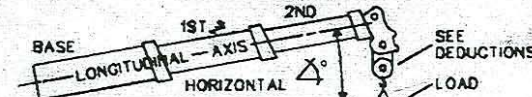
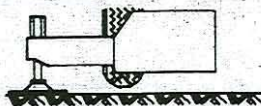
PART OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD	10000	20000	30000	40000	50000	60000	70000	80000	90000	100000

S/N 57402

NOTE: OPERATION

MODEL CN T650 - 65 TON HYDRAULIC CRANE LOAD RATING CHART

RATED LOADS IN POUNDS
ON OUTRIGGERS



POWERED BOOM LENGTH, IN FEET - MANUAL RETRACTED

G T	40 FT.			45 FT.			55 FT.			65 FT.			75 FT.			85 FT.			97.3 FT.			G T
	LOADED BOOM ANGLE △	RATED LOAD POUNDS		LOADED BOOM ANGLE △	RATED LOAD POUNDS		LOADED BOOM ANGLE △	RATED LOAD POUNDS		LOADED BOOM ANGLE △	RATED LOAD POUNDS		LOADED BOOM ANGLE △	RATED LOAD POUNDS		LOADED BOOM ANGLE △	RATED LOAD POUNDS		LOADED BOOM ANGLE △	RATED LOAD POUNDS		
		SIDE	REAR		SIDE	REAR		SIDE	REAR		SIDE	REAR		SIDE	REAR		SIDE	REAR		SIDE	REAR	
10	68	130000		71	102000		70	94800														10
12	65	115000		68	98400		72	88000		75	80400											12
15	60	87000		64	86900		68	84000		73	72800		75	60500								15
20	51	63500		56	63500		66	63400		68	63200		72	53000		74	44500		77	33000		20
25	40	49000		48	49000		57	49000		63	48900		68	45000		71	39000		74	32500		25
30	27	35800	36700	38	35800	36700	50	35800	36700	58	35800	36700	63	35800	36700	67	34200		71	29000		30
35				25	25800	27400	43	25800	27400	52	25800	27400	59	25800	27400	63	25800	27400	67	25500		35
40							34	19500	21200	46	19500	21200	54	19500	21200	59	19500	21200	64	19500	21200	40
45							22	14800	16500	39	14800	16500	49	14800	16500	55	14800	16500	61	14800	16500	45
50										31	11600	13300	43	11600	13300	51	11600	13300	57	11600	13300	50
55										20	9100	10700	37	9100	10700	46	9100	10700	53	9100	10700	55
60													29	7000	8500	41	7000	8500	49	7000	8500	60
65													19	5500	6900	35	5500	6900	45	5500	6900	65
70																28	4200	5500	40	4200	5500	70
75																18	3100	4400	35	3100	4400	75
80																			29	2100	3400	80
85																			22	-	2500	85

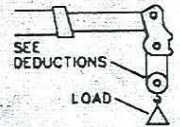
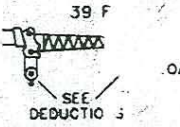
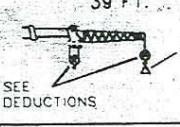
INFORMATION:

1. CRANE LOAD RATINGS DO NOT EXCEED 85% OF TIPPING.
2. RATINGS ABOVE THE HEAVY LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.
3. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED LATTICE EXTENSION, OPTIONAL ATTACHMENTS, HOOKS AND HOOKBLOCKS (SEE DEDUCTIONS CHART). WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
4. CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS FULLY EXTENDED AND SET TO A DISTANCE OF 11 FEET 9 3/4 INCH FROM THE LONGITUDINAL AXIS OF THE CARRIER TO THE OUTRIGGER FLOAT PIVOT CONNECTION WITH ALL LOAD REMOVED FROM CARRIER WHEELS.
5. COUNTERWEIGHT 2500 LBS. WITH NONE REMOVABLE

OF THIS EQUIPMENT IN EXCESS OF RATED LOADS AND DISREGARD OF INSTRUCTIONS IS AN UNSAFE PRACTICE AND WILL R

HART

LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED

PINNED SECTION EXTENDED				LATTICE EXTENSION WITH PINNED SECTION RETRACTED				LATTICE EXTENSION WITH PINNED SECTION EXTENDED			
 FOR ALL BOOM LENGTHS 68.7 TO 126 FT.				 FOR ALL BOOM LENGTHS 79 TO 136.3 FT.				 FOR ALL BOOM LENGTHS 107.7 TO 165 FT.			
OPERATING RADIUS FT.	FOR 126 FOOT BOOM ONLY	LOADED BOOM ANGLE °	RATED LOAD IN POUNDS	OPERATING RADIUS FT.	FOR 136.3 FOOT BOOM ONLY	LOADED BOOM ANGLE °	RATED LOAD IN POUNDS	OPERATING RADIUS FT.	FOR 165 FOOT BOOM ONLY	LOADED BOOM ANGLE °	RATED LOAD IN POUNDS
			SIDE REAR				SIDE REAR				SIDE REAR
30	76	20	19000	30	77	16000		30			
35	74		17500	35	75	14000		35			
40	72		15500	40	73	12000		40	77	11200	
45	69		13500	45	71	10000		45	76	10500	
50	67	13	15000	50	69	11000		50	74	9800	
55	64	11	12800	55	67	10300		55	72	9200	
60	61	9	10500	60	64	9700	10500	60	70	8600	
65	59	7	9000	65	62	8000	9300	65	69	8100	
70	56	6	7500	70	60	6700	9000	70	67	7400	7700
75	53	5	6000	75	57	5500	6700	75	65	6300	7200
80	49	4	4100	80	55	4500	5600	80	63	5300	6300
85	46	3	3200	85	52	3600	4700	85	61	4400	5400
90	43	2	2500	90	49	2900	3900	90	59	2900	3900
100	35	-	2300	100	43	-	2500	100	53	2400	3300
								110	48	-	2100

NOTE:

1. WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES, NOT OPERATING RADIUS TO DETERMINE LOAD RATING.
2. FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.
3. FOR BUCKET RATINGS ON 60 FT. EXTENSION, DEDUCT 20% FROM LOAD RATINGS.

WARNING:

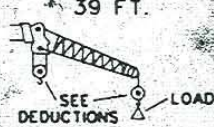
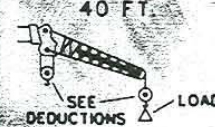
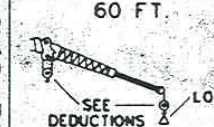
- A TIPPING CONDITION WILL OCCUR (WITH OR WITHOUT A HOOKBLOCK) WITH 39 FT., 40 FT., OR 60 FT. BOOM EXTENSION DUE TO THE FOLLOWING CONDITIONS:
1. DO NOT EXCEED 110 FT. OPERATING RADIUS WITH PINNED MAIN BOOM SECTION RETRACTED.
 2. DO NOT EXCEED 110 FT. OPERATING RADIUS WITH PINNED MAIN BOOM SECTION EXTENDED.

RESULT IN DENIAL OF WARRANTY CLAIMS.

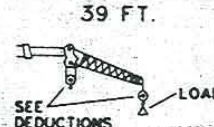
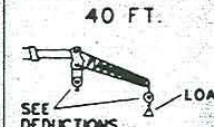
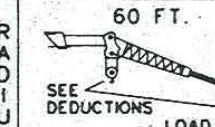
LOAD RATINGS FOR OFFSET EXTENSION

LOAD RATINGS IN POUNDS FOR 17° OFFSET WITH OUTRIGGERS EXTENDED

LATTICE EXTENSION WITH PINNED SECTION RETRACTED

OPERATING RADIUS IN FEET	39 FT.		40 FT.		60 FT.	
						
	FOR ALL BOOM LENGTHS 79 TO 136.3 FT.		FOR ALL BOOM LENGTHS 80 TO 137.3 FT.		FOR ALL BOOM LENGTHS 100 TO 157.3 FT.	
	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	LOADED BOOM ANGLE	RATED LOAD IN POUNDS
		SIDE REAR		SIDE REAR		SIDE REAR
36	78	9300	36		36	
40	76	8900	40	76	40	
45	74	8500	45	74	45	
50	72	8100	50	73	50	77
55	69	7800	55	70	55	75
60	67	7500	60	68	60	73
65	65	7200	65	66	65	71
70	62	7000	70	63	70	69
75	60	6400	75	61	75	67
80	57	5300	80	58	80	65
85	54	4400	85	55	85	63
90	52	3500	90	53	90	61
100	45	2400	100	46	100	56
110	37	1800			110	51

LATTICE EXTENSION WITH PINNED SECTION EXTENDED

OPERATING RADIUS IN FEET	39 FT.		40 FT.		60 FT.	
						
	FOR ALL BOOM LENGTHS 107.7 TO 165 FT.		FOR ALL BOOM LENGTHS 108.7 TO 166 FT.		FOR ALL BOOM LENGTHS 128.7 TO 186 FT.	
	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	LOADED BOOM ANGLE	RATED LOAD IN POUNDS
		SIDE REAR		SIDE REAR		SIDE REAR
36			36		36	
40			40		40	
45			45		45	
50	77	8300	50	77	50	
55	75	8100	55	76	55	
60	73	7700	60	74	60	78
65	71	7300	65	72	65	76
70	69	6900	70	70	70	74
75	67	6500	75	68	75	73
80	65	6000	80	66	80	71
85	63	5100	85	64	85	69
90	61	4300	90	62	90	68
100	57	2900	100	57	100	64
110	52	1800	110	52	110	60
					120	56

- NOTES: 1. SEE MAIN LOAD RATING CHART ON OUTRIGGERS FOR WARNINGS, DEFINITIONS, INFORMATION.
 2. FOR BUCKET RATINGS ON 60 FT. EXTENSION, DEDUCT 20% FROM LOAD RATINGS.
 3. STABILITY RATINGS DO NOT EXCEED 85% OF TIPPING LOADS.
 4. WHEN BOOM IS NOT FULLY EXTENDED USE ONLY BOOM ANGLES, NOT OPERATING RADIUS.
 5. FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.
 6. 2500 LB. COUNTERWEIGHT WITH NONE REMOVABLE.

OPERATION OF THIS EQUIPMENT IN EXCESS OF RATED LOADS

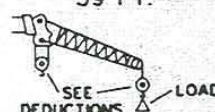
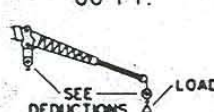


32U2671

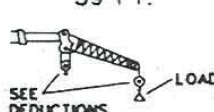
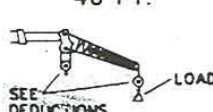
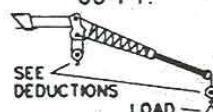
NSION WITH 126 FOOT BOOM

LOAD RATINGS IN POUNDS FOR 30° OFFSET WITH OUTRIGGERS EXTENDED

LATTICE EXTENSION WITH PINNED SECTION RETRACTED

39 FT.				40 FT.				60 FT.			
OPERATING RADIUS IN FEET FOR 136.3 FOOT BOOM ONLY											
	FOR ALL BOOM LENGTHS 79 TO 136.3 FT.			FOR ALL BOOM LENGTHS 80 TO 137.3 FT.			FOR ALL BOOM LENGTHS 100 TO 157.3 FT.				
	LOADED BOOM ANGLE °	RATED LOAD IN POUNDS		LOADED BOOM ANGLE °	RATED LOAD IN POUNDS		LOADED BOOM ANGLE °	RATED LOAD IN POUNDS			
		SIDE	REAR		SIDE	REAR		SIDE	REAR		
36			36			36					
40			40			40					
45	77	7100	45	77	6300	45					
50	75	6900	50	76	6100	50					
55	73	6700	55	73	5900	55					
60	71	6500	60	71	5700	60	77	3900			
65	68	6300	65	69	5500	65	75	3700			
70	66	6100	70	66	5400	70	73	3600			
75	63	6000	75	63	5200	75	71	3500			
80	60	5900	80	61	5100	80	69	3400			
85	57	4900	85	58	4200	85	67	3300			
90	55	4000	90	55	3300	90	64	3200			
100	48	2400	100	48	-	100	60	3000			
110	40	-				110	54	2200			
						120	48	-			

LATTICE EXTENSION WITH PINNED SECTION EXTENDED

OPERATING RADIUS IN FEET FOR 165 FOOT BOOM ONLY	39 FT.			OPERATING RADIUS IN FEET FOR 166 FOOT BOOM ONLY	40 FT.			OPERATING RADIUS IN FEET FOR 186 FOOT BOOM ONLY	60 FT.		
											
	FOR ALL BOOM LENGTHS 107.7 TO 165 FT.				FOR ALL BOOM LENGTHS 108.7 TO 166 FT.				FOR ALL BOOM LENGTHS 128.7 TO 186 FT.		
	LOADED BOOM ANGLE °	RATED LOAD IN POUNDS			LOADED BOOM ANGLE °	RATED LOAD IN POUNDS			LOADED BOOM ANGLE °	RATED LOAD IN POUNDS	
		SIDE	REAR			SIDE	REAR			SIDE	REAR
36				36				36			
40				40				40			
45				45				45			
50				50				50			
55	78	6800		55	78	5900		55			
60	76	6600		60	76	5800		60			
65	74	6500		65	74	5600		65			
70	72	6400		70	73	5500		70	78	3700	
75	70	6100		75	71	5300		75	76	3600	
80	68	5800		80	69	5000		80	74	3500	
85	66	5600		85	66	4700		85	73	3400	
90	64	4800	5300	90	64	4100	4500	90	71	3300	
100	59	3300	4200	100	60	2500	3500	100	67	3200	
110	54	2000	3000	110	55	-	2200	110	63	2800	3000
120	49	-	1800					120	59	-	2400

ATION AND REEVING.

- WARNINGS:**
1. DO NOT EXCEED 120 FT. RADIUS (WITH OR WITHOUT HOOK BLOCK) WITH 39 FT., 40 FT. OR 60 FT. BOOM EXTENSION OR A TIPPING CONDITION WILL OCCUR.
 2. DEDUCTIONS FROM OFFSET EXTENSION LOAD RATINGS MUST BE APPLIED ACCORDING TO DEDUCTION TABLE SHOWN ON MAIN LOAD RATING CHART.

DIUS TO DETERMINE LOAD RATING.

AND DISREGARD OF INSTRUCTIONS IS AN UNSAFE PRACTICE AND WILL RESULT IN DENIAL OF WARRANTY CLAIMS