



Address inquiries to

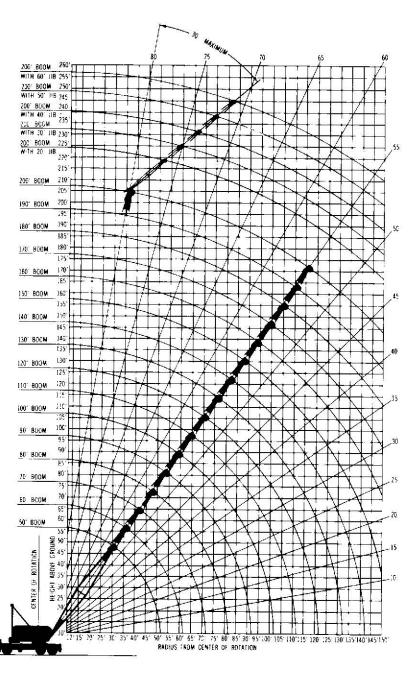
NOTE: All designs, specifications and components of the equipment described above are subject to change at the manufacturer's sole discretion at any time without advance notice. Data published herein is informational in nature and shall not be construed to warrant suitability of the machine for any particular purpose as performance may vary with the conditions encountered. The only warranty applicable is our standard written warranty for this machine. Manufactured and sold in conformance with U. S. Department of Commerce Commercial Standard CS-90-58.





# P&H° 790-TC

## 90-ton Truck Crane 200' Boom 180' Boom 60' Jib



Heavy Duty Standard Boom 62" wide x 62" deep

This Brochure contains charts for:

### Standard Ratings

- On Outriggers
- On Rubber

### Over the Rear Ratings

- On Outriggers for Heavy Rigging
- On Rubber "Walking" Ratings for Tilt-up Work

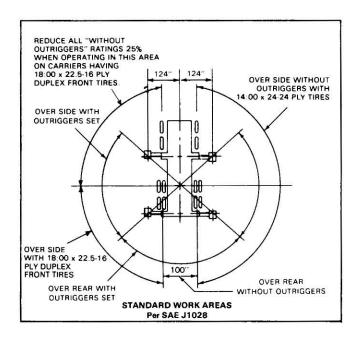
crane

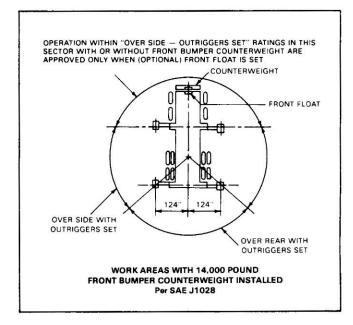
lifting capacities working ranges



## P&H 790-TC

THIS P&H MODEL
790-TC MEETS
THE REQUIREMENTS OF
ANSI B30.5-1968.
BOOM STRUCTURE
HAS BEEN TESTED PER
SAE J 987.
MACHINE STABILITY
HAS BEEN TESTED
PER SAE J 765.







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Address inquiries to:

TX-492C-6

D10-1076 Litho in U.S.A.

### P&H MODEL 790 T.C. — 90 TON TRUCK CRANE (CLASS 12-462)\* WITH 26,000 LBS. COUNTERWEIGHT

									RATI	ED CR	ANE	LOAD	S IN PO	UND	S — M	AIN BO	OM (62	" W. x	62" D.	) IN O	VER S	SIDE AN	ND C	OVER	REAR W	ORK	AREA	S WITH	OUTI	RIGGE	RS FUL	LY EXTE	NDED	AND	SET.		- (									
Oper a	50 Ft.	Boom	60	Ft. Boom	0)	70 Ft.`I	Boom	a)	80 Ft.	Boom	(a)	90 F	t. Boom		100 F	t. Boom	(a)	110 Ft.	Boom	a)	120 Ft.	Boom	a)	130 F	t. Boom	0	140 F	. Boom	0	150 Ft	. Boom	16	0 Ft. Boo	m	170 F	Ft. Boom	-	180 F	t. Boom	T	190 F	Ft. Boom		200 Ft.	Boom	Oper
	Boom Pt. El.	Rating Lbs.	Boom Pt. El			oom t. El.	Rating Lbs.		Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.		oom . El.	Rating Lbs.	Angle	oom t. El	ating )s.		Boom Pt. El.	Rating Lbs.		Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Hoo Pt. E		ing s.	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.		Boom t. El.	Rating Lbs.	Rad. Ft.
12 82	-	180,000								OVE HEAV					-							15/								-											MID-POIN	IT SUSPENS	SION (CE	NTER H	IITCH)	12
		152,500						BAL	ACTORS	OTHER T	HAN S	TABILIT	Υ.																			5									REQUIRED	D. ATTACH	75 FT. UF			15
20 72	_			124,600	78 7	76.7	121,000																																	1	ROM BOO	OM FOOT P	IN.			20
25 66	_		70 64.9	_	_	75.4	97,760	_		97,740		-	97,720	_	-	90,000																				1										25
30 60			65 62.9		-	73.7	71,760	72	84.4	71,740	74	94.8	71,720	75	105.2	71,700	77 11	5.5	71,600	78 1	25.7	71,550	79	135.9	54,000																					30
35 53	_		60 60.3		64 7	71.6	56,330	68	82.5	56,300	70	93.2	56,200	72	103.8	56,000	74 11	4.2	55,900	75 1	24.5	55,850	77	134.8	54,000	78	145.1	54,000	78	155.3	54,000	79 165	5 54,	000												35
40 45		46,200	54 57.0	46,150			46,100	64	80.3	46,000	67	91.3	45,900	69	102.0	45,700	71 11	2.7	45,500	73 1	23.1	45,450	74	133.6	45,400	75	143.9	45,200	76	154.2	45,000	77 164	5 44,	800 7	8 174.7	36,000	79	184.9	35,900	79	195.1	35,700				40
45 36	_		48 52.9	38,850	55 6	55.7	38,800	60	77.6	38,600	64	89.0	38,500	66	100.0	38,300	69 11	8.0	38,100	70 1	21.5	38,050	72	132.1	38,000	73	142.5	37,800	74	152.9	37,600	75 163	3 37,	400 7	6 173.6	36,000	77	183.8	35,500	78	194.1	35,000	78 2	04.3	34,000	45
50 24	28.9	33,500	41 47.7	33,450	+		33,400	56	74.4	33,200	60	86.3	33,000	63	97.7	32,800	66 10	8.8	32,600	68 1	19.6	32,550	70	130.3	32,500	71	140.9	32,300	72	151.5	32,000	74 161	9 31,	800 7	5 172.3	31,750	75	182.6	31,500	76	192.9	31,300	77 2	03.2	31,000	50
60			22 30.9	25,900	38 5	_	25,700			25,500	52	79.5	25,300	56	91.8	25,100	60 10	03.6	24,900	63 1			_		24,800	67	137.1	24,500	68	147.9	24,300	70 158	6 24,	100 7	1 169.2	24,000	72	179.8	23,800	73	190.2	23,500	74 2	00.6	23,200	60
70			-		20 3	32.7	20,700	35	54.4	20,400	43	70.3	20,200	49	84.2	20,000	54 9	7.0	19,800	57 1	09.2	19,750	60	120.9	19,600	62	132.4	19,400	64	143.6	19,200	66 154	6 18,	900 6	7 165.5	18,800	69	176.2	18,600	70	186.9	18,300	71 1	97.5	18,000	70
80								19	34.3	16,900	33	55.4	16,600	41	74.2	16,300	47 8	8.6	16,100	51 1	01.9	16,050	55	114.5	16,000	58	126.5	15,700	60	138.3	15,200	62 149	7 15,	100 6	160.9	15,100	65	172.0	14,900	67	182.9	14,600	68 1	93.8	14,300	80
90			WAR								18	35.9	14,000	31	60.3	13,700	39 7	77.8	13,400	45	92.8	13,350	49	106.6	13,300	52	119.5	13,000	55	131.9	12,700	58 143	9 12,	500 6	0 155.6	12,400	62	167.0	12,100	63	178.3	11,800	65 1	89.4	11,600	90
				b, main hoo chment weig		must b	oe re-							17	37.4	11,600	30 6	63.0	11,300	37 8	31.2	11,250	43	96.8	11,100	47	111.0	10,900	51	124.3	10,600	53 137	0 10,	400 5	66 149.3	10,300	58	161.2	10,000	60	172.9	9,700	62 1	84.4	9,400	100
110		T	101 110 attac	T T T T T T T T T T T T T T T T T T T													16 3	88.8	9,700	28	65.5	9,650	36	84.5	9,450	41	100.6	9,200	45	115.3	8,900	49 128	9 8,	650 5	2 142.0	8,550	54	159.5	8,300	56	166.7	7,950	58 1	78.6	7,700	110
120	Jib	20 Ft.	30 Ft.	40 Ft.	50 Ft.	60	Ft.										- 7.			16	40.2	8,350	27	67.9	8,100	34	87.6	7,800	40	104.3	7,550	44 119	3 7,	300 4	7 133.4	7,150	50	146.7	6,900	53	159.5	6,550	55 17	71.9	6,300	120
130	Length																						15	41.4	7,000	26	70.3	6,700	33	90.6	6,400	38 107	8 6,	150 4	3 123.3	6,000	46	137.7	5,750	49	151.3	5,400	51 1	64.4	5,150	130
140	Deduct	1,500	1,500	2,000	2,500	3,0	000																	3.		14	42.7	5,750	25	72.6	5,450	32 93	5 5,	200 3	37 111.2	5,000	41	127.1	4,750	45	141.8	4,450	47 1	55.8	4,150	140
150	Lbs.	1,000	1,000	2,000	2,000	3,0																				1			14	43.9	4,700	25 74	7 4,	400 3	96.3	4,200	36	114.5	3,950	40	130.7	3,600	43 1	45.8	3,300	150

							A T.F.	D CDA	IFIOAF	20.1	NI DOLIN	IDC I		NI DOOL		T110	LIT OLI		00	TIDE	0 AT 40	0.0			_			
	_						AIE		NE LOAD	ו פכ	N POUN	ND5 — I	MAI			THO			KS -			0 P.	S.I.					
Oper.	a.	50 Ft.	Boom	a)	60 Ft.	Boom	ىه	70 Ft. B	oom	ى	80 Ft.	Boom	a	90 Ft.	Boom	a)	100 Ft	t. Boom	au	110 Ft	. Boom	ره ا	120 Ft	. Boom	au .	130 Ft.	. Boom	Oper.
Rad. Ft.	Angle	Over Side	Over Rear	Angle	Over Side	Over Rear	Angle	Over Side	Over Rear	Angle	Over Side	Over Rear	Angle	Over Side	Over Rear	Angle	Over Side	Over Rear	Angle	Over Side	Over Rear	Angle	Over Side	Over Rear	Angle	Over Side	Over Rear	Rad. Ft.
12	82		85,000																				RAT	INGS SHO	WN D	O NOT EX	CEED	12
15	78		70,500																			100	M'			RE CAPAC		15
20	72		53,600	75	42,200	52,600	78	42,100	52,400														1					20
25	66	34.900	39,700	70	34,700	39,500	73	34,600	39,300	75	33,800	39,100	77	33,000	38,800	78	32,700	38,500										25
30	60	26,700	31,600	65	26,500	31,400	69	26,300	31,200	72	26,100	31,000	74	25,900	30,700	75	25,700	30,400	77	25,400	30,100	78	25,200	29,900				30
35	53	21,400	25,800	60	21,200	25,600	64	21,000	25,400	68	20,800	25,200	70	20,600	25,000	72	20,400	24,800	74	20,200	24,500	75	19,900	24,300	77	19,700	24,000	35
40	45	18,100	21,800	54	17,900	21,600	60	17,700	21,400	64	17,500	21,200	67	17,300	21,000	69	17,100	20,800	71	16,900	20,500	73	16,600	20,300	74	16,400	20,000	40
45	36	15,600	18,700	48	15,400	18,500	55	15,200	18,300	60	15,000	18,100	64	14,800	17,900	66	14,600	17,700	69	14,400	17,500	70	14,100	17,200	72	13,900	17,000	45
50	24	13,700	16,100	41	13,500	15,900	50	13,300	15,700	56	13,100	15,500	60	12,900	15,300	63	12,700	15,100	66	12,500	14,900	68	12,200	14,600	70	12,000	14,400	50
60				22	10,200	12,400	38	10,000	12,200	46	9,700	11,900	52	9,500	11,700	56	9,200	11,400	60	9,000	11,200	63	8,700	10,900	63	8,500	10,700	60
70							20	7,800	9,700	35	7,500	9,500	43	7,300	9,200	49	7,000	9,000	54	6,800	8,700	57	6,500	8,500	60	6,300	8,200	70
80										19	5,900	7,600	33	5,700	7,400	41	5,400	7,100	47	5,200	6,900	51	4,900	6,600	55	4,700	6,400	80
90													18	4,500	5,900	31	4,200	5,700	39	4,000	5,400	45	3,700	5,200	49	3,500	4,900	90
100																17	3,300	4,600	30	3,000	4,300	37	2,800	4,100	43	2,500	3,800	100

This P&H Model meets the requirements of ANSI B30.5-1968. Boom structure has been tested per SAE J987. Machine stability has been tested per SAE J765. \*Power Crane and Shovel Association Classification

Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.

Ratings shown are only for combination of P&H manufactured upper, boom, jib, and counterweights mounted on a P&H crawler, carrier and outriggers. Boom backstops are required for all boom lengths. Load ratings are based upon boom assembled as specified on insert arrangement chart.

Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly. Deduct weight of hook, block(s), slings, cement bucket and all other load handling accessories from main boom or jib rating shown.

Clamshell ratings shown also apply to magnets, grapple, and all other material handling buckets except dragline which is rated separately. For clamshell, dragline, and magnet operations, the weight of bucket or magnet is considered a part of the load and the total weight of bucket plus contents or magnet plus load must not exceed the corresponding rating shown.

Standard boom hoist reeving is 10 part line. Gantry must be in raised position for all "with outriggers" ratings. Gantry may be in lowered position only for "without outriggers" ratings. Optional auxiliary rear floats may be used in place of 14,000 lbs. front bumper counterweight for erecting maximum boom length. Ratings do not exceed 85% of tipping load as determined by SAE J765. Ratings are based on counterweight of 26,000 lbs. Refer to diagrams for applicable working area.

Low gear operation may be required when hoist or digging drum is operated on 6th or 7th layer of

P&H type 4 wire rope: 6x25 with filler wire, preformed improved wire rope, 7x7 I.W.R.C.

P&H type 25F I.W.R.C., preformed extra improved plow steel wire rope (filler wire).

Locate jib backstay as follows: 50 ft. to 90 ft. booms at base of boom tip section; 100 ft. to 200 ft. booms at top end of second insert below boom tip section.

Maximum approved travel speed with 14,000 pound front bumper counterweight installed is 5 M.P.H. All tires must be evenly inflated to 100 P.S.I. Boom must be positioned over the rear carrier. Maximum approved boom length for travel is 120 ft. or 100 ft. boom plus 30 ft. jib. Gantry must be in raised position to travel with boom attached.

#### WARNING: READ FOR SAFETY

The wind effect on the lifted load can cause sufficient side load to overstress boom or jib structure. When suspended load will not remain in line with boom derate chart 25%. We recommend stopping operation when wind is above 30 M.P.H. and tieing off, or lowering, boom when wind is above 50 M.P.H. When continued operation under windy conditions is necessary, consult factory for special derated load rating chart.

When operating truck crane "without outrigger" add lifted over rear and swung over side, will increase in radius due to tire deflection. The sase in radius must be compensated for by raising boom, or machine may tip over.

When assembling boom inserts, do not cantilever more than two inserts or 60 feet of inserts past point of pendant rope attachment to boom. Relocate point of attachment out on boom as additional inserts are added.

Welding or other repair to tubular steel boom may weaken the structure. See your P&H dealer for authorized boom repair service, unauthorized boom repair will void all warranties.

				ce of 14,000 lb om length as s		hart.
	M	AXIMUM BOO	M LENGTH TO	O LIFT OFF GR	OUND	
	With	out Front Bum	per Counterv	veight		0 Lbs. Front
Boom Over	With Outr	iggers Set	Without Ou	triggers Set	and Ou	unterweight itriggers Set
	Boom Only	Boom & Jib	Boom Only	Boom & Jib	Boom Only	Boom & Jib

130

130

110 + 30

190

32R100-C

180 + 20

#### WARNING:

180 + 20

Using this equipment in excess of rated loads, in areas of chart not rated, or with disregard of instructions will result in unsafe operating conditions and is a violation of the U.S. Dept. of Labor Safety and Health regulations for construction.

Maximum Jib (24 Service — Lbs.	" W. x 22	" D.) Rati	ngs for L	ifting Cra	nes
Three-Quarter Inc	h Dia. P8	H Type 4	Wire Ro	ре	
* Use Two Parts	of Line for	Loads A	bove 14,5	00 Lbs.	
Offset Angle Jib to Boom Under Full Load	20 Ft. Jib	30 Ft. Jib	40 Ft. Jib	50 Ft. Jib	60 Ft. Jib
10°	22,000*	20,000*	16,000*	12,000	8,000
20°	16,000*	14,500	12,000	9,500	7,000
30° Max.	13,000	11,000	8,500	7,000	6,000
Maximum Jib Rat	ings for B	ucket Se	rvice —	Lbs.	
* Use Three-Quar for Loads Above			Type 25	Wire Rop	е
10°	16,500*	16,000*	12,800	9,600	6,400
20°	12,800	11,600	9,600	7,600	5,600

30° Max. 10,400 8,800 6,800 5,600 4,800

Jib crane ratings are based on strength of materials. When main boom load rating at operating radius is less than maximum jib ratings stability governs and the lower value of main boom load rating must be used. Jibs are intended to increase lifting height—not operating radius—therefore maximum jib operating radius is limited to maximum rated radius of boom length on which lib is mounted.

MAIN	HOIST D	RUM RAT	ED LOAD	S FOR SE	VEN-EIGH	HTS INCH D	IA. P&H TY	PE 4 WIRE	ROPE	
Number of Parts of Main Hoist Reeving	1	2	3	4	5	6	7	8	9	10
${\sf Maximum\ Load\\ Lbs}.$	18,000	36,000	54,000	72,000	90,000	108,000	126,000	144,000	162,000	180,000
low gear-operation may	he requir	ed when	front or	rear drun	n is onera	ted on 6th	or 7th lave	r of cable		

## P&H MODEL 790 T.C. — 90 TON TRUCK CRANE (CLASS 12-539)\* WITH 26,000 LBS. COUNTERWEIGHT AND 8,000 LBS. FRONT BUMPER COUNTERWEIGHT

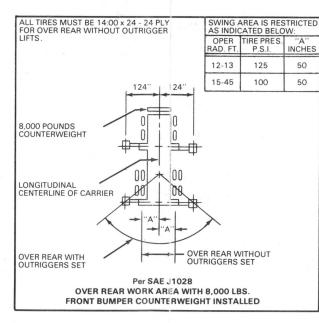
									RATE	D CRANE	LOADS	IN POU	NDS —	MAIN B	00M (6	2" W. x 6:	2" D. OF	R 62" W	. x 50" D	.) IN 0'	VER RE	AR WOR	( AREA	WITH O	UTRIGGE	RS FULLY I	EXTENDED	AND SI	ET .	7											
Oper. 9 50 Ft. Boom	60 Ft. I	Boom	70	Ft. Boom		80 Ft.	Boom		90 Ft.			100 Ft.		T		. Boom		120 Ft.			130 Ft.			140 Ft.			0 Ft. Boom		-	t. Boom	170	Ft. Boom	15	80 Ft. E	Room	$\overline{}$	190 Ft. I	Room	20	0 Ft. Boom	T
Rad. Boom Rating Pt. El. Lbs.	Boom Pt. El.	Rating Lbs.	Boon Pt. E			Boom Pt. El.	Rating Lbs.			Rating Lbs.	Bu Bo		Rating Lbs.	alge [B		Rating Lbs.	Bo Bo	oom	Rating Lbs.	Bo		Rating Lbs.			Rating Lbs.	Boor Pt. E	n Rating	Angle	Boom Pt. El.	Rating Lbs.	Boom Pt. El.		<u> </u>	om F	Rating Lbs.		Boom		<u> </u>	m Rating	Oper. Rad. Ft.
12 82 57.8 180,000			RAT	INGS ABOV	E HEAV	Y LINE A	RE LIMITE	D																						-				$\top$		$\vdash$					12
15 78 57.3 151,500				FACTORS 0						,							$\top$											+					+	1		MID	-POINT S	SUSPENS	ION (CENT	TER HITCH	15
20 72 56.0 125,000 7	75 66.4	123,000	78 76.7	121,000	0 79	86.9	108,000																								1	1	1	$\top$		REQL	UIRED. A	ATTACH	75 FT.	UP BOOM	20
25   66   54.1   99,000   7	70 64.9	98,900	73 75.4	98,800	0 75	85.8	98,700	77 9	96.0	98,600	78 10	06.3	90,000																					_		FRUN	M BOOM F		n.   62" B00M)	,	25
30 60 51.6 81,700 6	65 62.8	81,500	69 73.7	81,300	0 72	84.3	81,100	74 9	34.8	80,800	75 10	05.1	80,600	77 1	15.4	72,000	78 12	25.7	72,000	79 13	35.9	54,000														1	JIB	NOT APP	PROVED FOR	R	30
35 53 48.2 65,100 6	60.2	64,900	64 71.5	64,700	0 68	82.5	64,500	70 9	33.2	64,200	72 10	03.7	64,000	74 1	14.1	63,700	75 12	24.5	63,500	77 13	34.8	54,000	78 1	45.0	54,000	78 155.	3 54,000	79	165.5	54,000			$\Box$			i i	B00	OMS OVE	ER 180 FEET	ſ.	35
40 45 43.7 53,900 5	54 56.9	53,700	68.9	53,600	0 64	80.2	53,300	67 9	91.2	53,100	69 10	02.0	52,800	71 1	12.6	52,500	73 12	23.1	52,400	74 13	33.5	52,100	75 1	43.9	51,900	76 154.	2 51,600	77	164.4	51,400	78 174.7	36,000	79 184.	1.9 :	36,000		4		-		40
45 36 37.7 45,900 4	18 52.8	45,700	55 65.7	45,400	0 60	77.5	45,200	63 8	88.9	44,900	66 10	0.00	44,700	69 1	10.8	44,400	70 12	21.4	44,200	72 13	32.0	44,000	73 1	42.5	43,700	74 152.	9 43,500	75	163.2	43,200	76 173.5	36,000	77 183.	3.8	36,000	78	194.0	36,000	78 204.	3 35,000	45
50 24 28.7 37,000 4	47.6	39,600	50 61.7	39,300	0 56	74.4	39,100	60 8	36.2	38,800	63 9	97.6	38,500	66 1	08.7	38,200	68 11	19.6	38,100	70 13	30.3	37,800	71 1	40.9	37,600	72 151.	4 37,300	74	161.9	37,100	75 172.2	36,000	75 182.	2.6	36,000	76 1	192.9	36,000	77 203.2	2 34,000	50
60 2	22 30.7	30,100	38 51.1	30,800	0 46	66.1	30,600	52 7	79.4	30,300	56 9	91.7	30,000	60 1	03.5	29,700	63 11	14.9	29,600	65 12	26.1	29,400	67 1	37.0	29,100	68 147.	9 28,900	70	158.6	28,600	71 169.2	28,400	72 179.	).7 [	28,100	73	190.2	27,800	74 200.6	6 27,700	60
70			20 32.5	24,600	0 35	54.3	24,800	43 7	70.2	24,500	49 8	34.1	24,200	54	96.9	23,900	57 10	09.1	23,800	60 12	20.8	23,600	62 1	32.3	23,300	64 143.	5 23,100	66	154.5	22,800	67 165.4	22,600	69 176.	5.2 2	22,300	70 1	186.8	21,900	71 197.5	5 21,800	70
80					19	34.2	20,400	33 5	57.3	20,400	41 7	74.0	20,100	47	88.5	19,800	51 10	01.8	19,600	55 11	14.4	19,400	58 1	26.5	19,200	60 138.	2 18,900	62	149.6	18,600	64 160.9	18,400	65 171	9 1	18,100	67	182.9	17,800	68 193.7	7 17,700	80
90 RATINGS BELOW HE								20 3	38.1	17,600	32 6	61.4	17,300	40	78.6	17,000	45 9	93.5	16,900	49 10	07.1	16,600	53 1	20.0	16,400	56 132.	3 16,200	58	144.3	15,900	60 155.9	15,700	62 167.	1.4 1	15,500	64 1	178.6	15,100	65 189.7	7 15,000	90
100 BY FACTORS OTHER	R THAN STABI	ILITY.									19 3	39.7	14,800	31	64.2	14,500	38 8	82.1	14,400	43 9	97.5	14,200	48 ]	11.6	13,900	51 124.	9 13,700	54	137.5	13,400	56 149.7	13,200	58 161.	1.6	13,000	60	173.3	12,600	62 184.7	7 12,500	100
110														18	41.3	12,600	29 6	66.8	12,400	36 8	85.4	12,200	42 ]	101.4	11,900	46 115.	9 11,700	) 49	129.5	11,500	52 142.5	11,200	55 155.	5.0	11,000	57	167.1	10,600	59 178.9	9 10,500	110
120														-			17 4	42.8	10,800	28 F	69.3	10,600	35	88.6	10,300	40 105.	1 10,100	) 44	120.0	9,850	48 134.0	9,600	51 147.	1.2	9,350	53 1	160.0	9,000	55 172.4	4 8,900	120
130		WARNIN	IG:																	16 4	44.2	9,250	27	71.7	9,000	34 91.	7 8,750	39	108.6	8,500	43 124.0	8,250	46 138.	3.3	8,000	49	151.9	7,600	52 164.9	9 7,550	130
	is equipped mpensate for				ust be r	re-																	16	45.5	7,700	26 74.	0 7,600	33	94.6	7,350	38 112.1	7,100	42 127.	1.8	6,850	45	142.5	6,500	48 156.3	3 6,400	140
150 duced to con	mpensate for	JID attachn	ient weigr	11.																						15 46.	8 6,400	25	76.3	6,400	32 97.5	6,150	37 115.	5.4	5,900	40	131.6	5,500	44 146.5	5 5,400	150
/160 Jib	20 Ft.	30 Ft.	40 Ft.	50 Ft.	60 Ft.																							15	48.1	5,200	24 78.5	5,300	31 100.	).2	5,050	36	118.6	4,650	39 135.2	2 4,550	160
170 Length	2011.	JUTL.	70 TL.	JU 1 L.	ou it.																										14 49.3	4,600	24 80.	).6	4,300	30	102.9	3,950	35 121.8	8 3,850	170
180 Deduct	1 500	1.500	2.000	2.500	2 000																												14 50.	).5	3,700	23	82.6	3,300	29 105.5	5 3,200	180
190 Lbs.	1,500	1,500	2,000	2,500	3,000										-																					13	51.7	2,750	23 84.6	6 2,600	190

		8	R	ATED CRAN	E LOAI	OS — OVER	REAR	WITHOUT	OUTRIG	GERS			
Oper.	50	Ft. Boom	60	Ft. Boom	70	Ft. Boom	80	Ft. Boom	90	Ft. Boom	100	Ft. Boom	Oper.
Rad. Ft.	∠°	Ratings Lbs.	ے°	Ratings Lbs.	۷°	Ratings Lbs.	Z°	Ratings Lbs.	ے	Ratings Lbs.	Z°	Ratings Lbs.	Rad. Ft.
12	82	96,700			41								12
13	81	88,000											13
15	78	74,400											15
17	76	64,300	78	63,900									17
20	72	53,300	75	52,900	78	52,500	79	52,100			-		20
25	66	41,200	70	40,800	73	40,400	75	40,000	77	39,700	78	39,300	25
30	60	33,300	65	33,000	69	32,600	72	32,200	74	31,900	75	31,500	30
35	53	27,800	60	27,500	64	27,100	68	26,800	70	26,400	72	26,000	35
40	45	23,800	_54	23,400	60	23,100	64	22,700	67	22,300	69	22,000	40
45	36	20,600	48	20,300	55	19,900	60	19,600	63	19,200	66	18,900	45

			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10	,000
MAXIMUM JIB	(24"W. x Crane si			OR LIFTI	NG
Three-qua	rter inch o	lia. P&H T	ype 4 Wii	re Rope	
*Use two pa	arts of line	for loads	above 14	,500 Lbs.	
Offset Angle Jib to Boom Under Full Load	20 Ft. Jib	30 Ft. Jib	40 Ft. Jib	50 Ft. Jib	60 Ft. Jib
10°	22,000*	20,000*	16,000*	12,000	8,000
20°	16,000*	14,500	12,000	9,500	7,000
30° Max.	13,000	11,000	8,500	7,000	6,000
MAXIMUM JIB	RATINGS	FOR BUC	KET SERV	ICE — L	BS.
*Use three-q f	uarter inch or loads al			Wire Rop	е
10°	16,500*	16,000*	12,800	9,600	6,400
20°	12,800	11,600	9,600	7,600	5,600

10,400 8,800 6,800 5,600 4,800

NOTE: For loads of 88,000 lbs. or less, maximum swing area is 50 inches from longitudinal centerline of carrier at all operating radii with 125 P.S.I. tire pressure. For loads of 74,400 lbs. or less, maximum swing area is 50 inches from longitudinal centerline of carrier at all operating radii with 100 P.S.I. tire pressure.



## MAIN HOIST DRUM RATED LOADS FOR SEVEN-EIGHTHS INCH DIA. P&H TYPE 4 WIRE ROPE Number of Parts of Main Hoist Reeving 1 2 3 4 5 6 7 8 9 10 Maximum Load - Lbs. 18,000 36,000 54,000 72,000 90,000 108,000 126,000 144,000 162,000 180,000

#### WARNING: READ FOR SAFETY

When three-quarter inch diameter P&H Type II Wire Rope (18 x 7 Non-Rotating Preformed Improved Plow Steel Wire Rope Fiber Core) is used for jib line, maximum lifted load including hook must not exceed 8,700 lbs. Do not use dead-end swivels on Non-Rotating Wire Rope.

Ratings shown are based on tire loadings and machine stability and do not exceed 85% of tipping load as determined by SAE J765. Ratings shown are based on machine counterweight of 26,000 lbs. and front bumper counterweight of 8,000 lbs. Standard boom hoist reeving is 10 part line. Gantry must be in raised position for all operating conditions. Refer to diagram for applicable restricted work area.

Low gear operation may be required when hoist or digging drum is operated on 6th or 7th layer of cable.

P&H Type 4 Wire Rope: 6 x 25 with Filler Wire, Preformed Improved Plow Steel Wire Rope, 7 x 7 l.W.R.C.

P&H Type 25 Wire Rope: 6 x 25 F I.W.R.C., Preformed Extra Improved Plow Steel Wire Rope (Filler Wire)

Machine must be on a firm level, supporting surface. All tires must be  $14:00 \times 24 - 24$  ply inflated to: see chart. Load must be restrained from swinging during travel. Maximum approved travel speed: with lifted load is 1.5 M.P.H. Remove front bumper counterweight for travel speeds above 5 M.P.H. unless equipped with boom folding kit. Maximum approved tire pressure for highway travel is 100 P.S.I.

With boom folding kit, a maximum length of 110 ft. can be folded — 45 ft. Under 65 ft. a 100 ft. boom can be folded — 45 ft. Under 55 ft. "Travel" approved with gantry in the first raised position only and 8,000 lbs. front bumper counterweight.

Locate jib backstay anchor as follows: 50 ft. to 90 ft. boom — at base of boom tip section: 100 ft. to 180 ft. boom — at top of second insert below boom tip section.

Maximum boom length on which a jib can be mounted is 180 ft. Maximum boom and jib length to lift off ground, over side, is 160 ft. plus 60 ft. Any combination greater than 160 ft. plus 60 ft. must be lifted over rear.

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RECO	MMENDED	WIRE ROPE	LENGTH FO	R DRUMS -	- FT.
Boom Length Ft.	Main Hoist Drum	Jib Hoist Drum	Boom Length Ft.	Main Hoist Drum	Jib Hoist Drum
50	620	305	130	555	545
60	535	335	140	595	575
70	615	365	150	635	605
80	610	395	160	675	635
90	680	425	170	540	665
100	645	455	180	570	695
110	590	485	190	600	<u> </u>
120	640	515	200	630	_

Boom Length Ft.	INSERT ARRANGEMENT* For 62" Wide x 62" Deep Boom Only
90	BASE — A — C — TIP
100	BASE — C — B — TIP
110	BASE — A — C — B — TIP
120	BASE — D — B — TIP
130	BASE — C — D — TIP
140	BASE — A — C — D — TIP
150	BASE — B — C — D — TIP
160	BASE — A — B — C — D — TIP
170	BASE — B — D — D — TIP
180	BASE - C - D - D - TIP
190	BASE — D — A — C — D — TIP
200	BASE — B — C — D — TIP
	TION IS 25 FT.; TIP SECTION IS 25 FT. A = 10 FT.; B = 20 FT.; C = 30 FT.; D = 50 FT.

\*ONE SPECIFIED INSERT MAY BE REPLACED BY TWO SHORTER INSERTS WITHOUT REDUCING RATINGS