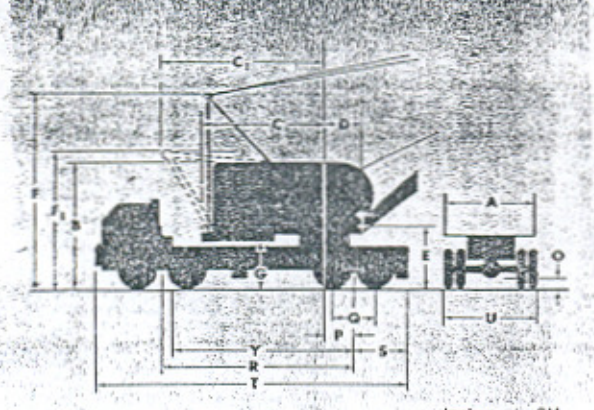
P&H 9125TC

140 TON TRUCK CRANE • DRAGLINE • CLAMSHELL

GENERAL DIMENSIONS



		Inches	CM
A	— Width of cab	130.0	330.2
B	— Height to top of cab	155.5	395.0
C	— Radius of rear end (counterweight)	176.5	448.0
C_1	— Radius of rear end (gantry lowered)	223.5	567.6
D	— Center of rotation to boom foot pin	52.0	132.1
E	— Height from ground to boom foot pin	85.5	217.3
F	— Clearance height over gantry (raised)	281.0	714.5
F_1	— Clearance height with gantry lowered	157.8	401.0
G	— Counterweight ground clearance	62.3	158.2
O	— Ground clearance (rear axle housing)	15.0	38.1
P	— Center of rotation to center of rear bogie	42.0	106.6
Q	— Distance between rear axles	60.0	152.4
R	— Wheelbase	230.0	584.2
S	— Center of rear bogie to rear of carrier	88.0	223.6
T	— Overall length of carrier with outriggers	394.5	1002.0
U	— Overall width of carrier (14.00 x 24 Tires)	132.5	336.5
Y	— Turning circle (min.) radius clearance Right	53'6"	16.3m
	Left	63'6"	19.35m
Y_1	— Back of truck cab to center of rear bogie	229.0	581.8

SPECIFICATIONS

Metric Specs.

UPPER MACHINERY

POWER:

Diesel: Cummins, V785 C, 8 cyl., (direct drive) alternator and 24 volt starting system (standard). ..... 185 hp @ 2000 rpm

Cummins, V785 C, 8 cyl., (torque converter drive) alternator, and 24 volt starting system (optional extra). ..... 221 hp @ 2400 rpm

HOUR METER: (electrical) standard.

TRANSMISSION: 3 speed (standard) engine clutch and transmission shifter controls at operators station (2nd gear normal operating speed).

TORQUE CONVERTER: Twin disc — 3 stage — with tail shaft governor (optional extra).

FUEL TANK: Capacity ..... 120 gal. 453 lt.

THROTTLE: Twist grip control mounted on swing lever (standard).

CONTROLS: Full flow power hydraulic.

SWING UNITS: Swing motion through two Magnetorque units.

CLUTCHES: Band type, internal expanding, separate clutch for each machine function.

BRAKES: (Front and rear drums) — band type external contracting — full wrap — with hydraulically set brake and with additional spring set hydraulically operated fail safe brake and external ratchet for locking drum. (Front and rear planetary drums) bank type full wrap — external contracting.

BOOM HOIST ASSEMBLY: Independent planetary gear type with external ratchet and automatic brake provides for raising or lowering boom under power and locking boom. Single internal expanding band type clutch, external contracting "full wrap" design brake with twin drums mounted on anti-friction bearings.

Line speed (each drum): ..... Hoisting 64.7 fpm 19.72 m./min.

Lowering 42.5 fpm 13.95 m./min.

MAIN DRUMS: Drums in tandem, mounted on anti-friction bearings (see separate sheets covering attachments for further details).

THIRD DRUM: Mounts on extension of front drum shaft, to the left of main drum. Does not interfere with any other machine function or front end attachment (optional extra).

GANTRY: High gantry (fold over type) folds over front or rear for traveling — two working and two traveling positions — power raise and lower (standard).

High gantry (telescoping type) three working positions power raise and lower (optional extra).

COUNTERWEIGHT: One piece, external (standard*) ..... 41,000 lbs.

Additional maximum counterweight (for max. capacity) (optional extra) ..... 21,000 lbs.

*Removable using four hydraulic rams set in carrier frame (furnished as standard equipment).

†Removable with gantry and boom hoist (optional extra).

TYPE OF FASTENING TO LOWER: 6 adjustable hook rollers — one double front — two double rear.

SWING ROLLERS: 36 rollers — live roller circle.

SWING GEAR: Internal cut teeth ..... 66" P.D.

ROTATING SPEEDS: High idle ..... 3.76 rpm

SWING BRAKE: External band type, hydraulic set, spring release.

CARRIER DATA

8 Wheels, 4 Wheel Drive, 12 Tires

WEIGHT: Including turret, manual outriggers, floats, roller circle and standard tires ..... 65,064 lbs.

FRAME: Front section is fabricated from 18"-58 lb. channel. Rear section is a fabricated box section 22.75 inches deep, crossbraced and reinforced. Front bumper of 0.50 inch bent plate. High strength low alloy steel plate used extensively. Tow loops front and rear. Removable rear frame section is standard.

OUTRIGGERS: Four (4) fabricated independent boxes of high strength low alloy steel plate. Front and rear boxes are pin connected, removable and hinged. Rollers and mechanical stops are provided on manually operated beams.

OUTRIGGER BEAMS: Four (4) fabricated reinforced box section beams of high strength low alloy steel plate with jackscrew nut at one end. Beams telescope to fully extended position from longitudinal center line of carrier to center line of jackscrew nut ..... 10'10".

HYDRAULIC OUTRIGGER ASSEMBLY: Eight (8) double acting hydraulic cylinders provide independent horizontal and vertical movement of each beam through electric solenoid actuated directional control valves operated from two control panels. Each panel controls one side only. Machine can be leveled hydraulically or manually with jackscrews.

P&H

912B-TC

CRANE AXLE LOADINGS

Use table below to determine weight adjustments to conform with local highway regulations. Item #1 or Item #1A is the base figure (total weight). From this Item #1 or #1A deduct "minus" figures or add "plus" figures shown. All figures indicate weight in pounds.

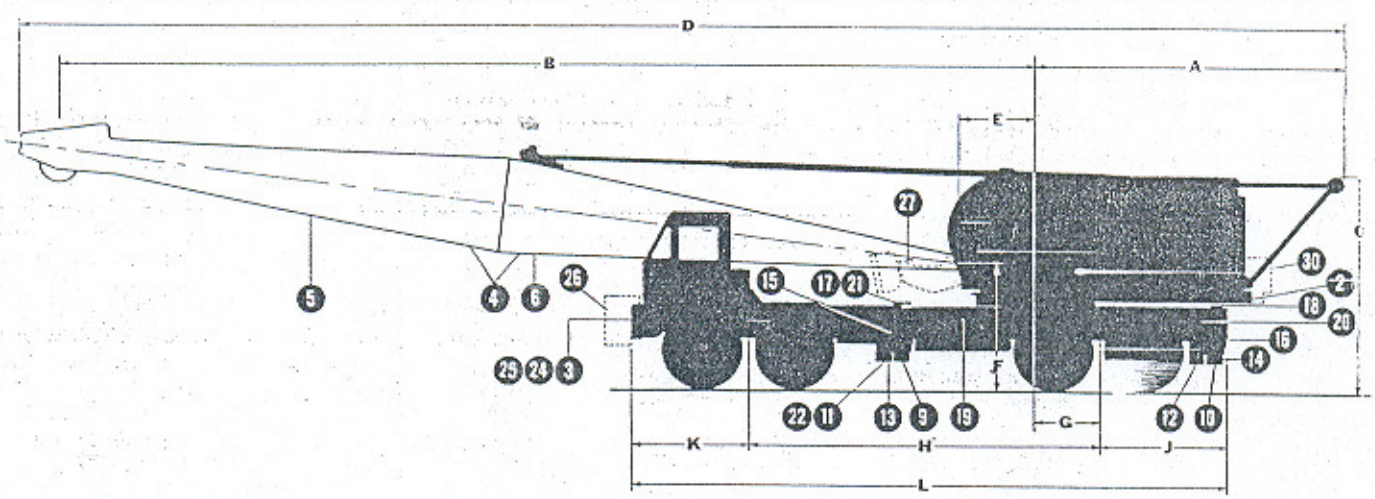
Item No.	Item	Total Weight or Adjustment	Boom Over Front of Carrier		Boom Over Rear of Carrier	
			Front Bogie	Rear Bogie	Front Bogie	Rear Bogie
1	Complete Standard Machine with 50' Boom Lowered to travel position, with single sheave hook block (manual outriggers)	159547	25796	133751	53781	105766
1A	Same as Item #1 Except with Hydraulic Outriggers	162127	26260	135867	54246	107881
	EFFECT OF REMOVING					
2	Cast Counterweight	−40450	+12420	−52870	−25850	−14600
3	Single Sheave Hook Block	−750	−1030	+280	+320	−1070
4	50 Ft. Boom with Guy Lines and Spreader	−6620	−11370	+4750	+8960	−15580
5	25 Ft. Boom Upper Section with Guy Lines	−2700	−6970	+4270	+6000	−8700
6	25 Ft. Boom Lower Section with Spreader	−3920	−4400	+480	+2900	−6880
7	Hoist Rope — Spooled on Hoist Drum	0	−760	+760	+760	−760
8	Boom Hoist Rope — Spooled on Boom Hoist Drum	0	−360	+360	+360	−360
9	Front Outrigger Beams with Screws	−3120	−1820	−1300	−1820	−1300
10	Rear Outrigger Beams with Screws	−3120	+1050	−4170	+1050	−4170
11	Front Outrigger Housings	−2320	−1350	−970	−1350	−970
12	Rear Outrigger Housings	−2320	+780	−3100	+780	−3100
13	Front Misc. Manual Outrigger Material	−250	−150	−100	−150	−100
14	Rear Misc. Manual Outrigger Material	−250	+90	−340	+90	−340
15	Front Hydraulic Outrigger Extension Cylinders	−200	−115	−85	−115	−85
16	Rear Hydraulic Outrigger Extension Cylinders	−200	+70	−270	+70	−270
17	Front Hydraulic Outrigger Vertical Cylinders	−960	−560	−400	−560	−400
18	Rear Hydraulic Outrigger Vertical Cylinders	−960	+340	−1300	+340	−1300
19	Four Aluminum Outrigger Floats	−480	−160	−320	−160	−320
20	Rear Frame Section only without Outrigger Housings but with Two Vertical Hydraulic Cylinders, Connecting Pins and Cams	−5120	+1580	−6700	+1580	−6700
21	Front Brackets for Vertical Hyd. Cylinders	−1020	−590	−430	−590	−430
22	Front Frame Outrigger Housing Brackets	−270	−150	−120	−150	−120
	Weight of machine with counterweight removed (manual outriggers).	119,097	38,216	80,881	27,931	91,166
	Weight of machine with counterweight, complete boom and block removed (manual outriggers). (Hoist and boom hoist rope spooled on drums.)	111,727	24,696	87,031	38,331	73,396
	Weight of machine with counterweight, complete boom, complete outriggers, rear frame section, hoist and boom hoist ropes removed.	94,527**	23,316	71,211	37,861	56,666
	EFFECT OF ADDING					
23	Boom Backstops	+1520	+1220	+300	−670	+2190
24	Three Sheave Hook Block*	+1300	+1730	−430	−500	+1800
25	Four Sheave Hook Block*	+2130	+2840	−710	−820	+2950
26	Front Bumper Counterweight	+27000	+37000	−10000	+37000	−10000
27	Fairlead	+1090	+330	+760	−130	+1220
28	Tagline Winder	+650	+1100	−460	−880	+1530
29	Power Lowering on Front Drum	+330	+60	+270	+60	+270
29A	Power Lowering on Rear Drum	+324	0	+324	+122	+202
30	Additional Max. Counterweight	+21300	−11100	+32400	+18800	+2500
31	15' Section with Hammerhead Tapered Upper Boom*	+1440	+2950	−1510	−2410	+3850
32	35' Upper Boom Section*	+800	+3090	−2290	−2780	+3580

*In place of Standard

**Machine weight under 94,000 lbs. may be obtained by removing hoist drum laggings.

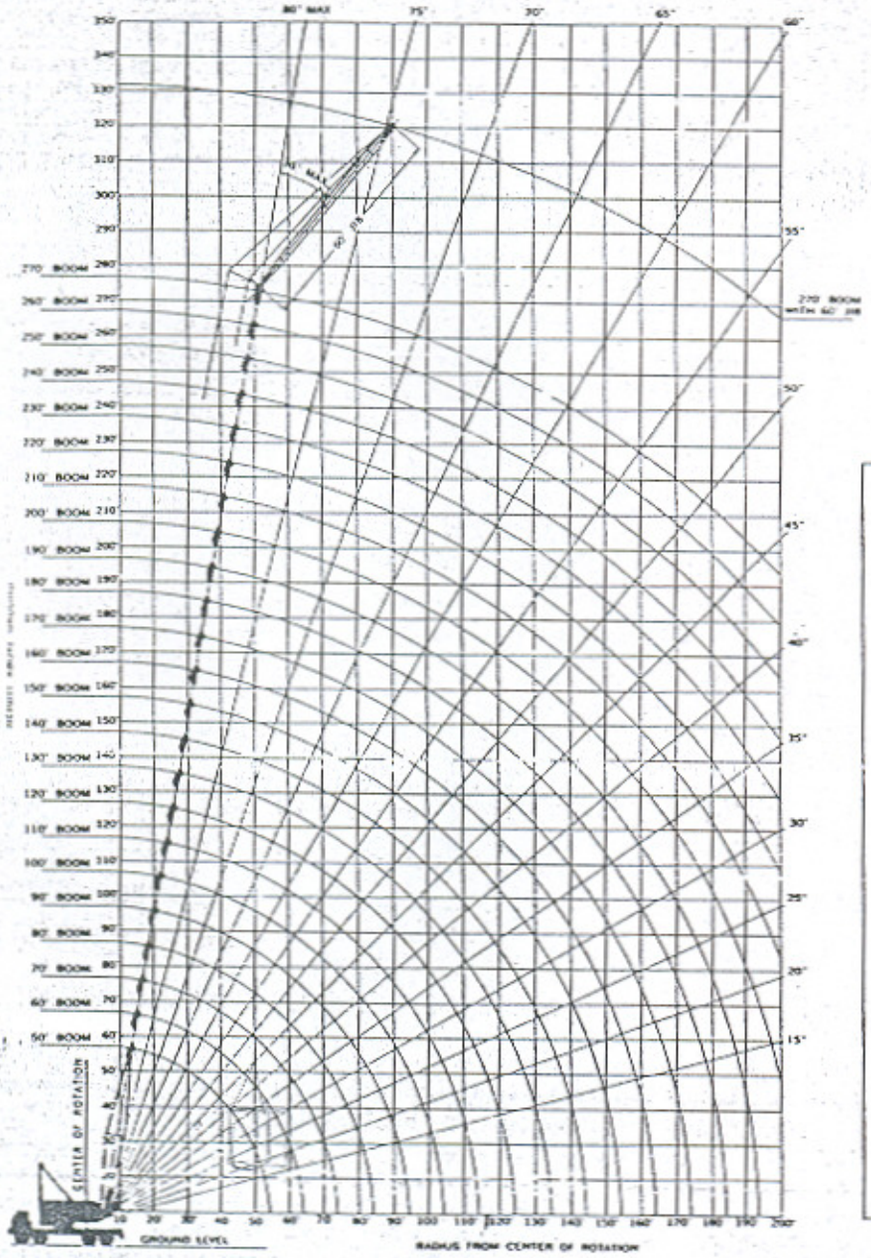
Minus figures indicate weights to be deducted from adjusted Item 1 figure at head of its column. Plus figure indicate weights to be added to adjusted Item 1 figure at head of its column.

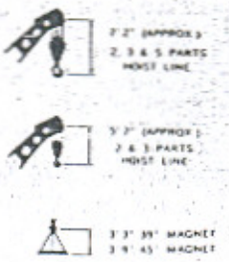
Boom Length	A	B	C	D	E	F	G	H	J	K	L
50'-0"	18'-4"	54'-6"	13'-1¼"	73'-7½"	52"	7'-3½"	42"	19'-2"	7'-4"	76½"	32'-10½"



P&H/9125-TC

140-ton Truck Crane
270' boom, 60' jib





Your versatile P & H 9125-TC adapts readily to your special operating needs through a choice of counterweights and boom tips. This brochure contains these crane rating charts:

Heavy and Light Duty Tapered Tip Boom:

1. 41,000 lbs. counterweight - on rubber
   50 to 130 foot boom lengths
2. 41,000 lbs. counterweight - on outriggers
   50 to 250 foot boom lengths
3. 62,000 lbs. counterweight - on outriggers
   50 to 270 foot boom lengths

Hammerhead Tip Boom:

4. 41,000 lbs. counterweight - on rubber
   40 to 130 foot boom lengths
5. 41,000 lbs. counterweight - on outriggers
   40 to 180 foot boom lengths
6. 62,000 lbs. counterweight - on outriggers
   40 to 180 foot boom lengths

Special Container Tip Boom:

7. 62,000 lbs. counterweight - on outriggers
   120 to 160 foot boom lengths

Jib Ratings

8. All boom combinations except container

This P & H Model 9125-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.

72° 1

P&H 9125-TC

the eight charts in this brochure illustrate the range and lifting prowess that has made the 9125-TC the "standard of the industry", the most widely used crane in its class

with 41,000 lbs. counterweight

rated crane loads in pounds — main boom — without outriggers

1

Oper. Rad. Ft.	Angle	50 Ft. Boom Over Side	50 Ft. Boom Over Rear	Angle	60 Ft. Boom Over Side	60 Ft. Boom Over Rear	Angle	70 Ft. Boom Over Side	70 Ft. Boom Over Rear	Angle	80 Ft. Boom Over Side	80 Ft. Boom Over Rear	Angle	90 Ft. Boom Over Side	90 Ft. Boom Over Rear	Angle	100 Ft. Boom Over Side	100 Ft. Boom Over Rear
12	81		75,228							WHEN USING BOOMS WITH A 25 FT. TIP SECTION, 60 FT. TO 130 FT. LONG, DEDUCT 1,000 LBS.								
15	78		63,984	80		63,234												
20	72	41,652	50,844	75	40,994	50,156	77	40,643	49,787									
25	66	33,689	41,876	70	33,068	41,229	73	32,738	40,884	75	32,384	40,516	77	31,763	39,869	78	31,392	39,485
30	60	28,066	34,300	65	27,471	34,764	69	27,156	34,437	71	26,817	34,085	73	26,222	33,468	75	25,863	33,098
35	53	23,885	28,100	59	23,309	28,800	64	23,005	28,700	67	22,677	28,500	70	22,102	28,200	72	21,751	27,900
40	45	20,654	23,700	54	20,094	24,400	59	19,798	24,200	64	19,478	24,000	67	18,918	23,700	69	18,575	23,400
45	36	18,083	20,200	47	17,535	20,900	55	17,246	20,800	59	16,933	20,600	63	16,385	20,300	66	16,047	20,000
50	24	15,700	17,600	40	15,451	18,300	49	15,167	18,100	55	14,860	17,900	60	14,321	17,600	63	13,988	17,300
60				22	12,260	14,300	37	11,985	14,100	46	11,686	13,900	52	11,162	13,600	56	10,836	13,300
70							20	9,664	11,400	35	9,371	11,100	43	8,858	10,800	49	8,536	10,500
80										19	7,608	9,100	32	7,103	8,800	41	6,785	8,500
90													17	5,722	7,250	31	5,407	6,900
100																17	4,295	5,700

PCSA CLASS 12-613
tapered tip sections

2

Oper Rad. Ft.	Angle	50 Ft. Boom Boom Pt. El.	50 Ft. Boom Rating Lbs.	Angle	60 Ft. Boom Boom Pt. El.	60 Ft. Boom Rating Lbs.	Angle	70 Ft. Boom Boom Pt. El.	70 Ft. Boom Rating Lbs.	Angle	80 Ft. Boom Boom Pt. El.	80 Ft. Boom Rating Lbs.	Angle	90 Ft. Boom Boom Pt. El.	90 Ft. Boom Rating Lbs.	Angle	100 Ft. Boom Boom Pt. El.	100 Ft. Boom Rating Lbs.	Angle	110 Ft. Boom Boom Pt. El.	110 Ft. Boom Rating Lbs.	Angle	120 Ft. Boom Boom Pt. El.	120 Ft. Boom Rating Lbs.
12	81	58.0	280,000					RATINGS ABOVE HEAVY LINE ARE LIMITED BY FACTORS OTHER THAN STABILITY.									RATINGS AT 20 FT. OPERATING RADIUS OR LESS REQUIRES THE USE OF 25 FT. TIP. SECTION WITH 5 SHEAVES.								
15	78	57.5	210,500	80	67.6	196,000																		
20	72	56.2	165,200	75	66.6	164,900	77	76.8	164,600															
25	66	54.3	127,000	70	65.1	127,300	73	75.6	127,300	75	85.8	127,200	77	96.3	127,100	78	106.5	127,000						
30	60	52.0	94,200	65	63.1	94,500	69	74.1	94,400	71	84.2	94,300	73	94.6	94,100	75	104.2	94,000	77	115.7	93,800	78	126.0	93,600
35	53	48.6	74,500	59	60.1	74,800	64	71.6	74,700	67	82.2	74,600	70	93.1	74,400	72	103.8	74,200	74	114.4	74,000	75	124.4	73,800
40	45	44.0	61,300	54	57.1	61,600	59	68.6	61,400	64	80.6	61,300	67	91.5	61,100	69	102.1	60,900	71	112.6	60,700	73	123.4	60,400
45	36	37.0	51,800	47	52.5	52,200	55	66.0	52,000	59	77.2	51,900	63	88.8	51,700	66	100.1	51,500	68	110.6	51,300	70	121.4	51,100
50	24	28.0	44,600	40	48.2	44,900	49	61.4	44,700	55	74.1	44,600	60	86.6	44,400	63	97.7	44,200	65	108.3	44,000	68	120.0	43,700
60				22	30.9	34,900	37	50.6	34,600	46	66.1	34,500	52	79.6	34,300	56	91.5	34,100	60	104.0	33,800	62	114.6	33,600
70							20	33.4	28,000	35	54.4	27,800	43	70.0	27,600	49	84.1	27,500	53	96.4	27,500	57	109.2	27,500
80										19	34.4	23,600	32	58.0	23,400	41	74.1	23,100	47	89.1	22,900	51	101.8	22,600
90													17	35.8	19,800	31	59.9	19,500	39	77.7	19,300	44	93.3	18,900
100																17	37.5	16,600	30	63.4	16,400	37	80.6	16,100
110		RATINGS LISTED FOR BOOMS 60 FT. AND LONGER ARE BASED ON THE USE OF A 35 FT. TIP SECTION. WHEN USING BOOMS WITH A 25 FT. TIP SECTION, 60 FT. TO 250 FT. LONG; RATINGS GREATER THAN 20 FEET MUST BE REDUCED BY 1000 POUNDS.																	16	38.8	14,200	28	66.1	13,800
120																						15	41.1	12,000
130																								
140																								
150																								
160																								
170				**WARNING:** MAXIMUM RATING FOR 35 FT. 3 SHEAVE TIP IS 150,000 LBS.																				
180																								
190																								
200																								

72-2

— tires at 100 p.s.i.

1

Oper. Rad. Ft.	Angle	110 Ft. Boom Over Side	110 Ft. Boom Over Rear	Angle	120 Ft. Boom Over Side	120 Ft. Boom Over Rear	Angle	130 Ft. Boom Over Side	130 Ft. Boom Over Rear
12		RATINGS SHOWN DO NOT EXCEED MAXIMUM APPROVED TIRE CAPACITY							
15									
20									
25									
30	77	25,268	32,480	78	25,126	32,335			
35	74	21,176	27,600	75	21,037	27,200	77	20,664	27,100
40	71	18,014	23,100	73	17,877	22,700	74	17,512	22,600
45	68	15,498	19,600	70	15,363	19,300	72	15,004	19,100
50	65	13,449	16,900	68	13,315	16,600	69	12,960	16,400
60	60	10,312	13,000	62	10,180	12,600	65	9,832	12,500
70	53	8,023	10,200	57	7,893	9,850	60	7,551	9,700
80	47	6,280	8,150	51	6,152	7,800	54	5,813	7,650
90	39	4,909	6,550	44	4,781	6,250	49	4,445	6,050
100	30	3,801	5,350	37	3,674	5,000	43	3,341	4,800

Boom Over	MAXIMUM BOOM LENGTH TO LIFT OFF GROUND					
	WITHOUT FRONT BUMPER COUNTERWEIGHT				With 30,000 Lb Bumper Counte and Outrigger	
	With Outriggers Set		Without Outriggers Set			
	Boom Only	Boom & Jib	Boom Only	Boom & Jib	Boom Only	Bo
	25 FT. TIP SECTION WITH 5 SHEAVES					
Side	200	180 + 50	130	110 + 30	200	1
Rear	210	190 + 30	130	120 + 20	250	2
	35 FT. TIP SECTION WITH 2 SHEAVES					
Side	210	190 + 60	130	110 + 30	210	1
Rear	220	200 + 40	130	120 + 20	250	2

WARNING: When operating crane "without outriggers" loads lifted over rear and swung over side, will increase in rad to tire deflection. This increase in radius must be compensated for by raising boom, or machine may tip over.

WARNING: Welding or other repair to tubular steel booms may weaken the structure. See your P & H dealer for aut boom repair service. Unauthorized repair will void all warranties.

rated crane loads in pounds — main boom (69" w. x 69" d.) in over side and ove

2

Oper Rad. Ft.	Angle	130 Ft. Boom Boom Pt. El.	130 Ft. Boom Rating Lbs.	Angle	140 Ft. Boom Boom Pt. El.	140 Ft. Boom Rating Lbs.	Angle	150 Ft. Boom Boom Pt. El.	150 Ft. Boom Rating Lbs.	Angle	160 Ft. Boom Boom Pt. El.	160 Ft. Boom Rating Lbs.	Angle	170 Ft. Boom Boom Pt. El.	170 Ft. Boom Rating Lbs.	Angle	180 Ft. Boom Boom Pt. El.	180 Ft. Boom Rating Lbs.	Angle	190 Ft. Boom Boom Pt. El.	190 Ft. Boom Rating Lbs.	Angle	200 Ft. Boom Boom Pt. El.	200 Ft. Boom Rating Lbs
12																			MAST REQUIRED FOR BOOMS OVER					
15																								
20																								
25																								
30																								
35	77	135.3	73,600	77	145.0	73,400	78	155.3	73,200															
40	74	133.6	60,300	75	143.9	60,000	76	154.1	59,800	77	164.6	59,500	78	174.9	59,300	79	185.3	59,000						
45	72	132.1	50,900	73	142.4	50,700	74	152.8	50,500	75	163.1	50,200	76	173.6	50,000	77	184.1	49,800	78	194.3	50,700	78	204.1	50,5
50	69	130.1	43,600	71	141.1	43,400	72	151.4	43,200	73	161.6	42,900	74	172.1	42,600	75	182.6	42,400	76	193.0	43,200	77	203.4	43,0
60	65	126.5	33,500	67	136.6	33,200	68	147.7	32,900	69	158.0	32,700	71	169.3	32,400	72	179.7	32,200	73	190.2	32,700	74	201.1	32,5
70	60	121.2	27,500	62	132.2	27,300	64	143.5	27,000	66	154.6	26,700	67	165.1	26,500	69	177.6	26,300	70	187.1	26,700	71	197.8	26,4
80	54	114.0	22,600	57	126.1	22,300	60	138.6	22,000	62	150.1	21,800	64	161.5	21,500	65	171.7	21,300	67	183.6	21,500	68	194.1	21,3
90	49	106.6	18,900	52	120.0	18,600	55	131.5	18,300	58	144.2	18,100	60	155.8	17,800	62	167.6	17,600	63	178.1	17,700	65	190.1	17,5
100	43	97.1	16,000	47	111.0	15,800	50	124.8	15,500	53	136.3	15,200	56	148.6	14,900	58	161.1	14,700	60	173.1	14,800	61	183.6	14,5
110	36	84.9	13,800	41	104.3	13,500	45	114.5	13,200	49	129.3	12,900	52	142.6	12,600	54	154.1	12,400	56	166.2	12,400	58	178.2	12,1
120	27	67.4	11,900	34	88.2	11,700	40	104.9	11,300	44	119.7	11,100	47	133.0	10,700	50	146.5	10,600	53	160.2	10,500	55	172.5	10,2
130	15	41.7	10,400	26	70.7	10,100	33	90.1	9,800	38	106.8	9,550	42	122.4	9,200	46	138.1	9,050	49	152.0	8,950	51	163.9	8,6
140				14	43.7	8,850	25	73.2	8,500	32	93.1	8,250	37	110.9	7,900	41	126.6	7,750	44	142.2	7,600	47	155.0	7,3
150							14	44.4	7,400	24	73.4	7,150	31	96.1	6,800	36	114.3	6,650	40	130.5	6,450	43	146.3	6,1
160										13	44.1	6,200	24	77.5	5,850	30	98.4	5,700	35	117.5	5,450	39	134.5	5,1
170													13	46.3	5,000	23	78.7	4,850	29	102.0	4,600	34	120.3	4,3
180																13	48.6	4,150	22	81.5	3,850	29	105.3	3,5
190																			12	49.4	3,200	22	83.3	2,8
200																						12	49.7	2,2

→ 72° 3

operating instructions printed below and throughout this brochure are for your safety and will contribute to the long life of your P&H 9125-TC

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, counterweights, carrier and outriggers. Boom backstops are required for all boom lengths. Boom inserts must be arranged as shown in the Boom Make-Up Chart. Standard boom hoist reeving is 12 part line. Gantry must be in raised position for all operating conditions except when mast is required. When boom is equipped with jib, main hook ratings must be reduced by 1500 lbs. for 20 ft. or 30 ft. jib; 2000 lbs. for 40 ft. jib; 2500 lbs. for 50 ft. jib and 3000 lbs. for 60 ft. jib. Refer to diagrams for applicable working area.

Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted loads, 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. Ratings do not exceed 85% of tipping load as determined by SAE J 765. Deduct weight of hook block(s), slings, cement bucket, and all other load handling accessories from main boom or jib rating shown. Ratings shown are based on 41,000 lbs. counterweight.

WARNING: 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.

P & H type 4 wire rope: 6 x 25 with filler wire, preformed improved plow steel wire rope 7 x 7 I.W.R.C.

P & H type 25 wire rope: 6 x 25 I.W.R.C., preformed extra improved plow steel wire rope (filler wire).

Maximum approved travel speed with 30,000 pound front bumper counterweight installed is 5 m.p.h. All tires must be evenly inflated to 100 P.S.I. Maximum approved boom length for travel is 130 ft. or 110 ft. boom and 30 ft. jib. Boom must be positioned over rear of carrier. Gantry must be in raised position to travel with boom attached.

WARNING: When one inch diameter P & H type 11 wire rope (18 x 7 non-rotating preformed plow steel wire rope fiber core) is used for jib line on rear drum maximum lifted load including hook must not exceed 15,320 lbs. Do not use dead-end swivels with non-rotating wire rope.

This chart does not apply for booms equipped with a container tip or hammerhead tip section. Refer to applicable chart for ratings.

ır work areas with outriggers fully extended and set

10 Ft. Boom		220 Ft. Boom			230 Ft. Boom			240 Ft. Boom			250 Ft. Boom			Oper. Rad. Ft.
xm El.	rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	Angle	Boom Pt. El.	Rating Lbs.	
LONG AND GANTRY MUST BE IN THE INTERMEDIATE POSITION.														12
														15
O'NT SUSPENSION (CENTER HITCH) REQUIRED FOR BOOMS OVER 200 FT. LONG														20
														25
														30
														35
A LENGTHS OVER 200 FT. WITH A 35 FT. TIP SECTION REQUIRES A 2 SHEAVE POINT														40
														45
3.3	42,800	78	223.7	40,600	79	234.4	36,400							50
1.5	32,200	76	222.1	32,100	76	231.7	31,700	77	242.5	31,500	77	252.1	26,100	60
8.3	26,200	73	218.8	26,100	73	228.6	25,700	74	239.4	25,500	75	250.1	25,200	70
4.7	21,100	70	215.5	20,900	71	226.2	20,600	72	236.6	20,400	73	247.6	20,200	80
0.3	17,200	67	211.1	17,000	68	221.8	16,800	69	232.6	16,500	70	243.6	16,300	90
6.0	14,300	64	206.2	14,100	65	217.1	13,800	67	229.6	13,500	67	240.0	13,400	100
0.3	11,900	61	201.1	11,700	63	213.6	11,400	64	224.4	11,200	65	235.2	11,000	110
4.8	10,000	58	195.1	9,800	60	208.0	9,500	61	218.6	9,250	62	229.5	9,050	120
8.5	8,400	55	188.8	8,200	57	201.4	7,900	58	212.3	7,650	60	225.1	7,450	130
9.3	7,050	52	182.1	6,850	54	194.6	6,600	56	207.6	6,300	57	218.1	6,100	140
5.5	5,900	48	174.1	5,700	51	187.4	5,450	53	200.0	5,150	54	212.4	4,950	150
0.3	4,950	45	164.6	4,700	47	178.6	4,450	50	192.5	4,150	52	205.6	3,950	160
7.8	4,050	41	154.1	3,800	44	168.5	3,550	46	182.1	3,300	49	197.0	3,050	170
4.2	3,300	37	141.6	3,050	40	156.3	2,800	43	172.1	2,550	45	187.2	2,500	180
2.0	2,650	33	127.3	2,400	36	145.0	2,150							190
5.5	2,050													200

with 62,000 lbs. counterweight

rated crane loads in pounds — main boom (69" w. x 69" d.) in ove

Oper Rad. Ft.	Angle	50 Ft. Boom Boom Pt. El.	50 Ft. Boom Rating Lbs.	Angle	60 Ft. Boom Boom Pt. El.	60 Ft. Boom Rating Lbs.	Angle	70 Ft. Boom Boom Pt. El.	70 Ft. Boom Rating Lbs.	Angle	80 Ft. Boom Boom Pt. El.	80 Ft. Boom Rating Lbs.	Angle	90 Ft. Boom Boom Pt. El.	90 Ft. Boom Rating Lbs.	Angle	100 Ft. Boom Boom Pt. El.	100 Ft. Boom Rating Lbs.	Angle	110 Ft. Boom Boom Pt. El.	110 Ft. Boom Rating Lbs.	Angle	120 Ft. Boom Boom Pt. El.	120 Ft. Boom Rating Lbs.	Angle
12	81	58.0	280,000					RATINGS ABOVE HEAVY LINE ARE LIMITED BY FACTORS OTHER THAN STABILITY																	
15	76	57.5	220,800	80	67.6	196,000											RATINGS AT 20 FT. OR LESS REQUIRE USE OF A 25 FT. TIP SECTION WITH 5 SHEAVES.							
20	72	56.2	174,300	75	66.6	174,000	77	76.8	168,500																
25	66	54.3	138,360	70	65.1	137,900	73	75.6	137,600	75	85.8	137,300	77	96.3	136,800	78	106.5	132,200							
30	60	52.0	114,400	65	63.1	114,700	69	74.1	114,600	71	84.2	114,500	73	94.6	114,300	75	104.2	114,100	77	115.7	113,900	78	126.0	106,600	
35	53	48.6	90,700	59	60.1	91,000	64	71.6	90,800	67	82.2	90,700	70	93.1	90,500	72	103.8	90,300	74	114.4	90,100	75	124.4	89,800	77
40	45	44.0	74,900	54	57.1	75,200	59	68.6	75,000	64	80.6	74,900	67	91.5	74,700	69	102.1	74,500	71	112.6	74,200	73	123.4	74,000	74
45	36	37.0	63,500	47	52.5	63,800	55	66.0	63,600	59	77.2	63,400	63	88.8	63,300	66	100.1	63,000	68	110.6	62,800	70	121.4	62,500	72
50	24	28.0	55,100	40	48.2	55,400	49	61.4	55,100	55	74.1	55,000	60	86.6	54,800	63	97.7	54,600	65	108.3	54,400	68	120.0	54,100	69
60				22	30.9	43,400	37	50.6	43,100	46	66.1	43,000	52	79.6	42,800	56	91.5	42,500	60	104.0	42,300	62	114.6	42,000	65
70							20	33.4	35,100	35	54.4	35,000	43	70.0	34,800	49	84.1	34,500	53	96.4	34,300	57	109.2	34,000	60
80										19	34.4	29,200	32	58.0	29,000	41	74.1	28,700	47	89.1	28,500	51	101.8	28,100	54
90													17	35.8	25,200	31	59.9	24,900	39	77.7	24,700	44	93.3	24,400	49
100																17	37.5	21,400	30	63.4	21,200	37	80.6	20,900	43
110																			16	38.8	18,500	28	66.1	18,100	36
120																						15	41.1	15,900	27
130																									15
140																									
150																									
160																									
170																									
180																									
190																									
200																									

RATINGS LISTED FOR BOOMS 60 FT. AND LONGER ARE BASED ON THE USE OF A 35 FT. TIP SECTION. WHEN USING BOOMS WITH 25 FT. SECTION, 60 FT. to 250 FT. LONG; RATINGS BELOW HEAVY LINE AND GREATER THAN 25 FT. OPERATING RADIUS, DEDUCT 1000 LBS.

WARNING: MAXIMUM RATING FOR 35 FT. 3 SHEAVE TIP IS 150,000 LBS.

Oper Rad. Ft.	Angle	210 Ft. Boom Boom Pt. El.	210 Ft. Boom Rating Lbs.	Angle	220 Ft. Boom Boom Pt. El.	220 Ft. Boom Rating Lbs.	Angle	230 Ft. Boom Boom Pt. El.	230 Ft. Boom Rating Lbs.	Angle	240 Ft. Boom Boom Pt. El.	240 Ft. Boom Rating Lbs.	Angle	250 Ft. Boom Boom Pt. El.	250 Ft. Boom Rating Lbs.	Angle	260 Ft. Boom Boom Pt. El.	260 Ft. Boom Rating Lbs.	Angle	270 Ft. Boom Boom Pt. El.	270 Ft. Boom Rating Lbs.	Oper. Rad. Ft.
12																						12
15																						15
20	MIDPOINT SUSPENSION (CENTER HITCH) REQUIRED FOR BOOMS OVER 200 FT. LONG.																					20
25																						25
30	MAXIMUM BOOM LENGTH WITH A 25 FT. TIP SECTION IS 250 FT.																					30
35																						35
40	BOOM LENGTHS OVER 200 FT. WITH A 35 FT. TIP SECTION REQUIRES A 2 SHEAVE POINT.																					40
45																						45
50	77	213.3	45,700	78	223.7	40,600	79	234.4	36,400													50
60	75	211.5	40,600	76	222.1	39,400	76	231.7	35,300	77	242.5	31,600	77	252.1	26,100	78	262.8	24,300				60
70	72	208.3	32,300	73	218.8	32,100	73	228.6	31,800	74	239.4	30,500	75	250.1	25,200	76	260.6	23,500	76	270.6	20,300	70
80	69	204.7	27,200	70	215.5	27,100	71	226.2	26,800	72	236.6	26,600	73	247.6	24,300	73	257.4	22,600	74	268.1	19,400	80
90	66	200.3	22,600	67	211.1	22,500	68	221.8	22,200	69	232.6	21,900	70	243.6	21,800	71	254.6	21,500	72	265.4	18,700	90
100	63	196.0	19,100	64	206.2	18,900	65	217.1	18,600	67	229.6	18,300	67	240.0	18,200	68	249.5	17,900	69	261.1	17,600	100
110	60	190.3	16,200	61	201.1	16,000	63	213.6	15,700	64	224.4	15,500	65	235.2	15,300	66	245.8	15,000	67	257.1	14,700	110
120	57	184.8	13,900	58	195.1	13,700	60	208.0	13,400	61	218.6	13,200	62	229.5	13,000	64	242.6	12,700	65	253.5	12,400	120
130	53	176.5	12,000	55	188.8	11,800	57	201.4	11,500	58	212.3	11,200	60	225.1	11,000	61	236.1	10,700	62	247.1	10,400	130
140	50	169.3	10,400	52	182.1	10,100	54	194.6	9,900	56	207.6	9,600	57	218.1	9,400	59	231.6	9,100	60	242.6	8,800	140
150	46	159.5	9,000	48	174.1	8,750	51	187.4	8,500	53	200.0	8,200	54	212.4	8,000	56	224.1	7,700	57	235.6	7,400	150
160	42	150.3	7,800	45	164.6	7,550	47	178.6	7,300	50	192.5	7,000	52	205.6	6,800	53	216.1	6,500	55	229.6	6,200	160
170	38	137.8	6,750	41	154.1	6,500	44	168.5	6,250	46	182.1	6,000	49	197.0	5,750	50	207.5	5,450	52	221.6	5,150	170
180	33	124.2	5,850	37	141.6	5,550	40	156.3	5,300	43	172.1	5,050	45	187.2	4,800	47	197.5	4,550	50	215.2	4,200	180
190	28	107.0	5,000	33	127.3	4,750	36	145.0	4,500	39	161.4	4,250	42	175.6	4,000	44	189.1	3,700	47	206.3	3,400	190
200	21	85.5	4,300	27	109.8	4,050	31	130.2	3,800	35	148.3	3,500	39	165.8	3,250	41	175.5	3,000	44	196.4	2,650	200