

P&H_®Century 150

Rough Terrain Crane 50 Ton (45.3 tonnes) Capacity 170 Feet (51.8 m) Max. Boom and Extension

- ☆ Transportable in one piece on a trailer.
- ☆ 110 foot hydraulic telescopic boom, 4-plate type, welded inside and out.
- Lattice extensions 35 foot and 35-60 foot telescopic. Swingaround type mounts on side of main boom for travel. Extensions can be offset 17° or 30° from main boom for up-and-over reaches.
- Duty cycle no deration of capacities for bucket work on main boom or 35 foot extension.
- Operators' cab cushion mounted, environmentally designed. Joy stick controls for crane functions with telescoping and tilt steering wheel.

- 4 steering modes front wheel, rear wheel, crab or 4-wheel all selected by electric switches controlled by the steering wheel.
- Fully sequential power shift transmission with torque converter. Gear selection electrically controlled and operated...located on the steering column.
- ☆ P&H model 1580 winches planetary gearing, two equal speeds, power raising and lowering. Infinitely variable speed control. High line speeds and line pull.
- Extra rugged hydraulic, electrical and mechanical systems for long, hard duty.
- "Easy Ride" Stabilizer takes the bounce out of travelling for safer and easier movement around the jobsite.



Specifications



Specifications

ITEM This P&H crane meets the requirements of ANSI B30.5 (1987). Boom structure (boom, lattice extension and jib) has been tested per SAE J1063, machine stability tested per SAE J765. LOAD RATINGS shown apply only to machine as manufactured and marketed by P&H.

BASIC MACHINE

Attachment



Boom: 34 ft. (10.4 m) retracted to 110 ft. (33.5 m) extended length, four section boom consisting of a boom base, two hydraulically extended and retracted sections and a fourth pinned section which can be hydraulically extended and retracted. Boom point has five

17.362" (441mm) dia. main metalic sheaves with roller bearings and two idler sheaves with bronze bearings. Boom elevation from -2° to 78°.

Each section of this rectangular boom consists of four plates welded both inside and out for superior strength. Large, nonmetallic slider pads are adjustable.

For performance characteristics, see Chart no. 1, Crane Range Diagram, and Charts nos. 2 & 3, Lifting Capacities on Main Boom.

See Optional Equipment for lattice extensions, auxiliary sheave, and hook blocks.

Counterweight: 9,000,lbs (4,080 kg) standard, non-removable type. 1080 lbs. (490 kg) auxiliary counterweight to be used on units without an auxiliary winch.

Upperstructure



Operator's Cab: Fully enclosed, all-weather steel cab with full vision safety glass and hinged top window with tinted glass. Cab is cushion-mounted for vibration isolation.

Operator's Cab Standard Equipment: Contains all roading and crane function controls. Front control console includes: engine water temperature gauge, engine oil pressure gauge, hydraulic oil temperature gauge, air pressure gauges, fuel gauge, volt meter, transmission temperature gauge, speedometer, hour meter, winch high speed indicators; main winch drum turn indicator, dash light, electrical horn, windshield wiper and washer, tachometer, machine level, brake warning indicator, check gauges indicator, rear steer centering light and built in operational aids. Deluxe operator's seat with torsion suspension and fabric covering, and seat belt. Also, a fire extinguisher and defroster fan.

Controls: Joy-stick controls are an integral part of the seat arm rests. Left hand side operates swing and auxiliary winch. Right hand side operates main winch and boom hoist. Front floor mounted foot pedals for propel brake, swing brake, boom telescope and engine throttle. Front console instrument panel contains ignition switch, hand throttle control, swing lock control, and electrical outrigger control panel.

Electrical system: 24 volt negative ground. Wiring harnesses have protective covering and are independently clamped to the framework, and have environmentally sealed Deutsch connectors. Rocker switches in operator's cab are environmentally sealed.

Throttle Control: Variable air control for foot operation, and positive position cable control for hand use.

Operational Aids: Mechanical boom angle indicator.

Krueger (ATB) anti-two block warning device with audio-visual warning. For main boom only.

Krueger load moment system (Mark 3e/2). Includes load moment device w/audio-visual warning, radius, angle, length w/angle preset. Includes Control Lever Lockouts (Solenoid valve shut-off devices).

Winches



Main Winch: P&H model 1580 with two speed, bent axial piston motor, mounted to rear of revolving frame. Planetary gearing and equal speed, power raising and lowering. Infinitely variable speed control. Spring applied, hydraulically released load holding multi-disc

brake is automatic. Complete with 550' (167m) of .75" (19m) wire rope, and mechanical drum turn indicator.

15" (381mm) pitch diameter Drum:

18.5" (479mm) wide

23.5" (597mm) flange diameter

.75 " (19mm) dia, 6 x 37 extra improved plow Wire Rope:

steel with 7x7 IWRC. Strength limit: 16,800

lbs. (7,619 kg). (3.5 safety factor.)

Drum Capacity: 554 ft.(168m) x .75" (19mm) dia., 5 layers.

18,282 lbs. (8,291 kg) 1st layer, low speed. Line Pull (max.):

13,223 lbs. (5,997 kg) 5th layer.

Available Line Pull (for starting loads

11,000 lbs. (4991 kg) 5th layer in mid-air) (max.):

Line Speed (max.): (At 2750 engine rpm and with .75" wire

rope) 642 ft./min. (196 m/min.) 5th layer,

high speed.

See Chart No. 11, Hoist Reeving, for rope capacities and parts of line required.

Auxiliary Winch: See Optional Equipment. Plumbing and controls for future installation of aux. winch is standard.

SHEAVE AND DRUM TO WIRE ROPE RATIOS

(Pitch Diameters)	Sheave to Wire Rope	
Main Boom Sheaves .75" Wire Rope .625" Wire Rope	24.15:1 28.78:1	-
Main Winch .75" Wire Rope .625" Wire Rope	-	20.0:1 23.8:1

Boom Hoist: Two 8.00" (203mm) I.D. cylinders, double-acting. Hydraulically powered raising and lowering with holding valve. Elevation -2° to 78°.

Boom Telescope: Two 6.3" (160mm) I.D. cylinders, double-acting. Hydraulically powered raising and lowering with holding valve. Supplied by a single hose loop.

Hydraulic System

Filters: Two 10-micron nominal return line filters mounted externally at the hydraulic reservoir. All return oil is filtered. Indicators external.



Pump Drive: Gear driven integral with transmission off rear of torque converter housing, with manual pump disconnect for highway travel. O.948 pump speed to 1.0 engine speed drive ratio.

Pumps: One tandem gear pump operating at full load rpm, with the first section providing 48.9 gpm (185 l/m) to the boom hoist and telescope circuits, and the second section providing 40.2 gpm (152 I/m) to the main and auxiliary winch circuit.

One tandem gear pump operating at full load rpm, with the first section providing 21.5 gpm (81.4 l/m) to the outrigger, steer and winch boost circuits, and the second section providing 28.8 gpm (109 l/m) to the swing circuit.

Oil Reservoir: 162 gallons (615 liters) mounted at front, right side of engine frame.

Oil Cooler: Oil to air, tube and fin type with internal turbulator.

Control Valves: One single-spool valve for swing circuit.

One two spool valve with one spool for boom hoist and one spool for telescope circuits.

One two-spool valve with one spool for main winch and one spool for optional auxiliary winch.

Swing System



Swing Unit: Hydraulic motor driving through gear reducer to pinion gear. 360° continuous rotation to 2.0 rpm full load.

Swing Gear: Single shear ball swing bearing with integral spur gear.

Swing Brake: Spring applied, hydraulically released, internal disc brake, integral with swing reducer. Hand brake control switch mounted on front console in cab. A manual foot pedal applies brake for static holding.

House Lock: 360° gear segment type manually engaged with lever in cab.

Carrier



Type: P&H 4 x 4 x 4, 10' 9-1/2"(3.29 m) wide.

Weight: Including ball bearing swing circle, hydraulic outriggers, and standard tires: 41,000 lbs. (18,600 kg).

Frame: Rectangular frame members of 100,000 psi (7000 kg/cm²) and 80,000 psi (5600 kg/cm²) yield strength alloy steel, reinforced with box constructed cross members of 80,000 psi (5600 kg/cm²) yield strength alloy steel.



Outriggers: Hydraulic out and down type. Eight doubleacting hydraulic cylinders for independent horizontal and vertical motion of each beam operated from the operator's cab. Each vertical cylinder is equipped with a holding valve.

Outrigger beams: 100,000 psi yield strength alloy steel box extending to a maximum spread of 23' 7" (7.2 m) from centerline of float to centerline of float with the machine fully raised on the outriggers. Retracted width of the outriggers without floats is 10'6" (3.2 m).

Outrigger Floats: Individually removable floats with storage on carrier. Float size 24" (610mm) dia. with effective nominal surface area of 452 sq. in. (2920 cm²) per float.

Lower Standard Equipment: Fenders with side storage compartments, sliding engine hood, tool box, tow lugs front and rear, hydraulic pump disconnect, automatic moisture ejector for air system, rear axle disconnect, oil to water transmission cooler and oil to air hydraulic oil cooler, audio back-up warning device, highway lights, rear view

mirrors, air drier, oscillating axle lockout override and fire extinguisher

Axies: Planetary drive and steer, both axles. 22.38:1 total reduction

Brakes, Service: Air over hydraulic brakes on all four wheels. Caliper disc type: one caliper for each front wheel; one caliper for each rear wheel. Front and rear on separate circuits.

Brakes, Parking: Spring-loaded air chamber on 14" dia. caliper disc brake on output yoke of transmission. Spring applied, air released.

Suspension: Rigid mounted front axle. Rear axle is pivot mounted with automatic hydraulic lockout cylinders. Maximum oscillation: 10.4" (265 mm).

Steering: Hydrostatic type pressure compensated system fully controlled by a steering wheel with two hydraulic power assist cylinders on each axle.

Steering Modes: Operator's choice of front steer only, independent rear steer only, crab steer and four wheel steer. Activation of different steering modes is by electrical switch on the console. All steering modes controlled by steering wheel

Tires: 26.5 x 25 - 26 PR tubeless rock tread (E-3)

For crane ratings on tires see chart no. 6.



Power Plant:

Max. HP:

Max Torque:

Cummins 6CT 8.3 215 HP (160 kw) @ 2500 rpm 558 ft. lb. (77 kg - m) @ 1500 rpm

Cylinders: 5.31

Six: 4.49" (114 mm) bore x (135mm) stroke.

Displacement:

505 cu. in. ((8.27 liter)

Cycle:

Four

Alternator:

Delco 24 volt, 65 amp. 24 volt system with negative ground

Electrical: Aspiration: Turbocharged

Air compressor:

Bendix TU-FLO501 12 CFM @ 1250

rpm (340 liters per min.)

Radiater: Water to air, tube and fin type core with bottom tank transmission oil cooler. Thermostatically temperature controlled.

Air Cleaner: Donaldson PHG two stage primary dry air cleaner with restriction indicator.

Fuel Tank: One steel tank, 80 gallons (300 liters) mounted on right side of carrier between the tires.

Transmission: Fully sequential power shift transmission with torque convertor, 6 speeds forward, 3 reverse. Gear selection electrically controlled and operated. Front axle disconnect: 2 wheel drive, 4 wheel drive, electrically controlled and operated.

Performance: Theoretical, based on 79,800 lbs. (36,200 kg) GVW; 26.5x25 E3 tires; 9000 lbs. (4080 kg) counterweight; 34' to 110' telescoping boom. Speed and gradeability will vary due to engine performance, vehicle weight and optional tires. Gradeability based on SAE J688.

Max. Speed: 24.7 mph (39.8 km/h) Max. Grade @ 1 mph: 54% (90% at stall).

END BASIC MACHINE



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ITEN NO	()ntions and Accessories
125	Lattice Extension: 35 ft. (10.7 m). Swingaway lattice structure with a detachable point section for easy conversion to telescopic type extension with a single metallic sheave. It can be put into operating condition by pivoting from its stored position on right side of boom base ection. Self storing pins connect extension to boom head. In the operating position the extension is offset 2° from the main boom. Includes anti-two block material.
135	Telescopic Lattice Extension: 35 ft. to 60 ft. (10.7m to 18.3m) Swingaway lattice structure boom extension with a welded four plate telescope section with a single metallic sheave. It can be put into operating condition by pivoting from its stored position on the right side of the boom base section and pinned to the boom head. Telescopic section is then extended on rollers and pinned. The telescopic section can be replaced with a stub head section when extra length is not required. In the operating position the extension is offset 2° from the main boom. Includes ant- two-block material.
	For performance characteristics see Chart no 1: Crane Range Diagram, and Chart nos. 3,4 and 5: Load Ratings for Lattice Extension.
140	Offset Mechanism: Pivoting links which allow items 125 and 135 to offset 17° or 30° from the main boom.
160	Auxiliary Boom Point Sheave: Boom point mounted with single metallic sheave, includes anti-two block material.
205	Auxiliary Winch: P&H model 1580, same as main winch, mounted to rear of revolving frame on the counterweight. Includes mechanical drum turn indicator.
220	Wire Rope for auxiliary winch: .75 x 460', 6 x 36.
225	Wire Rope for Auxiliary Winch: .75" x 460', 8 x 19 spin resistant
235	Hook Block: 50 ton, 5 sheaves
240	Hook Block: 45 ton, 4 sheaves
245	Hook Block: 20 ton, 1 sheave
255	Weighted Jib Hook: 8.5 ton, with swivel
260	Cable Spooling Device: Main or auxiliary winch drum
270	Four (4) Pilot operated lever controls (In lieu of joystick controls).
410	Window Wiper: Roof
415	Heater: Diesel

Heater: Propane w/out tank.

Vandalism Kit: Lexan Glass

Floodlights: three (3)

Rotating Beacon: Amber, on roof of cab

Tinted Glass

420

435 440

455

460

ITEM NO. 510 Tires: 29.5 x 29 - 28 ply rating tires.

For crane load ratings on these tires see chart no. 7.

Spare Wheel & Tire: 26.5 x 25-26 ply tire 550 Spare Wheel & Tire: 21:00 x 25-24 ply tire

Spare Wheel & Tire: 29.5 x 29 - 28 ply tire 570

Pintle Hook: front or rear 625

Cold Weather Starting Aid 635

Tire Inflation Kit 645

560

END OPTIONAL EQUIPMENT

NOTE:

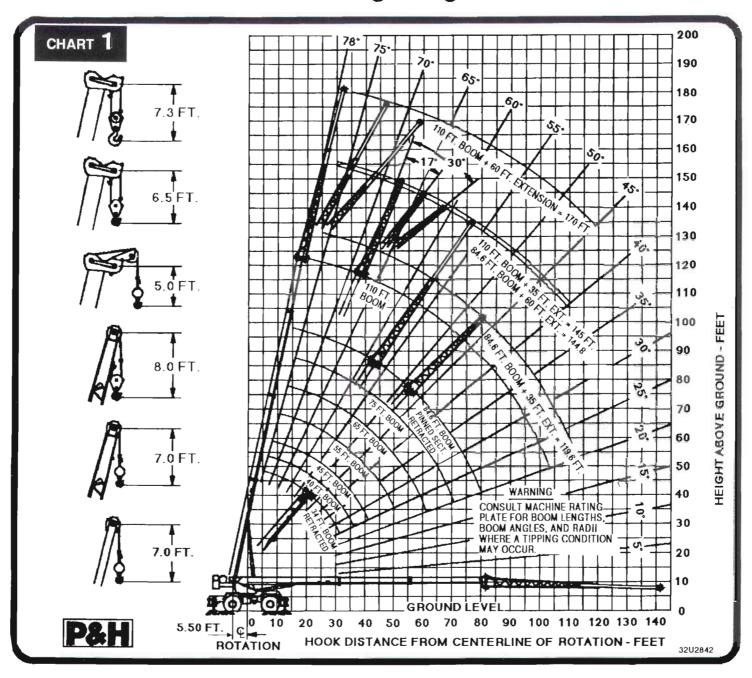
Operation of this equipment in excess of rated loads and disregard of instructions is an unsafe practice and will result in denial of warranty claims.

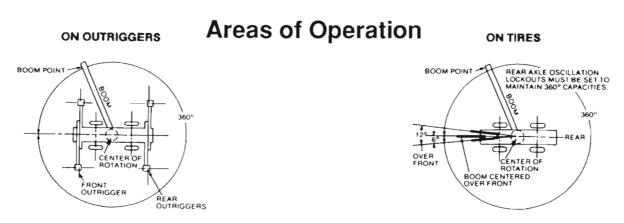


Weight Distribution

ITEM		Pounds			Kllograms	
	Gross	Front	Rear	Gross	Front	Rear
Danie Carrier	07.055	14.065	13,290	12,406	6,379	6,027
Basic Carrier	27,355	14,065	4,373	2,628	645	1,983
Basic Upper	5,795	1,422	4,373	2,020	043	1,500
Standard Equipment						
110 ft. 4 Sect Boom inst.	17,089	21,653	-4,564	7,750	9,820	-2,070
Boom Hoist Cyl. w/Easy Ride inst.	2,496	2,245	251	1,132	1,018	114
9000 lb. Counterweight inst.	9,010	-4,317	13,327	4,086	-1,958	6,044
3000 ib. Gouritei Weight mat.	3,010	1,017	, 0,02,	,,,,,,	,	,
Main Winch (P&H 1580) inst.	1,094	-340	1,434	496	-154	650
Auxiliary Winch Plumbing	108	-13	121	49	-6	55
Drum Turn Indicator - Main Winch	18	-4	22	8	-2	10
		400	200	0.40	74	217
Main Winch Wire Rope .75" x 515 '	536	-163	699	243	-74	317 741
Slab Counterweight or Aux. Winch	1,094	-540	1,634	496	-245	
Cummins 6CT 8.3 Eng. w/ P-Shift Tr.	3,570	3,021	549	1,619	1,370	249
26.5x25 E-3 Tires (Qty - 4)	5,504	2,752	2,752	2,496	1,248	1,248
Rear Axle inst. (std.)	4,653	0	4,653	2,110	0	2,11
360° Position House Lock	35	13	22	16	6	10
Weight - Basic Machine	78,357	39,794	38,563	35,535	18,047	17,488
		55,1.0.1		,	,	
Adjustments for Options:						
Attachment Options:						
Auxiliary Sheave inst.	152	428	-276	69	194	-125
35 to 60 ft. Lattice Extension inst.	2,900	3,642	-743	1,315	1,652	-337
50 ton Hook Block (hooked on frt. frame)	946	1,590	-644	429	721	-292
20 ton 1 Sheave Hook Block	580	1,555	-975	263	705	-442
8.5 ton Ball Hook on Aux. Sheave	265	761	-496	120	345	-225
Offset Boom Extension Mat'l inst.	201	531	-330	91	241	-150
35 ft. Lattice Extension inst.	1,735	2,294	-549	787	1,036	-249
Tire Options:						
29.5 x 25 E-3 Tires	1,308	787	521	595	358	237
20.0 x 20 L-0 Tries	1,500	707	021			
Winch Options:						
Aux. Winch Wire Rope .75" x 460'	487	-245	732	221	-111	332
Drum Turn Indicator-Aux. Winch	15	-9	24	7	-4	11
Spooling Roller - Main Winch	53	-20	73	24	-9	33
Spooling Roller - Aux. Winch	53	-31	84	24	-14	38
Cab Ontions						
Cab Options: Heater - Diesel	53	4	49	24	2	22
Heater LP	53 55	4 4	51	25	2	23
		3	46	25	1	21
LP Tank Full	49		-2	10	11	-1
Floodlights	22	24	-2	10	11	-1
Roof Window Wiper	4	2	2	2	1	1
Rotary Roof Beacon	7	2	5	3	1	2
ŕ						
Miscellaneous Options:	در	, ,	,		7	2
Pintle Hook Front	11	15	-4	5	7	-2
Pintle Hook Rear	11	-7	18	5	-3	8
50 ton Hook Block @ Boom Point Air Dryer	0	946	-946	0	429	-429 3
	29	22	7	13	10	ા

Crane Range Diagram







PCSA CLASS 10-211

Load Ratings with 9000 lbs. Counterweight

		_			ATER	110	A DO IN		INIDO	211.0	Tirni	005	20				_
С	OR				KAIEL	LO	ADS IN	POL	NDS (ON C	UIRI					O P	R A
Н	E D		П							_	151	710	F.	SEE	UCTIONS	E	ô
Α	R I A U		₩						BASE	Juci 100	AL AXE	— <i>)</i>				R	U
R	TS				A SALES	**			1		HOPHZ	ONTAL -	<u> </u>	/ LOA	U	Ť	s
Т	N F	4	34 FT.	*	40 FT.	_	45 FT.	*	55 FT.	*	65 FT.	*	75 FT.	*	84.6 FT.	N	F
	G T.	4	360°	4	360°	4	360°	7	360°		360°		360°	4	360°	G	۲.
2	10	66	100000	70	82000	72	81000	76	75000								10
80503003030	12	62	86000	67	81500	70	76500	74	69000	77	60000					1	12
	15	56	71000	62	71000	65	70000	71	62000	74	54900	77	47200		_	-	15
	20	45	54000	53	54000	58	54000	65	53000	69	47300	73	39900	75	34700	6	20
	25	29	42000	43	42000	50	41900	59	41700	65	40800	69	34400	72	29900	1	25
	30			30	33700	40	33600	52	33500	59	33400	65	30000	68	26100	(30
	35					28	27700	45	27700	54	27700	60	26400	64	22900	3	35
	40							37	21100	48	21100	55	21100	60	20400	- 4	10
	45							26	16500	41	16500	50	16500	56	16500	4	15
	50									34	13200	45	13200	52	13200	į	0
	55									24	10800	39	10800	47	10800		55
	60				15 77 53				0			32	8700	42	8700	6	0
	65				2							22	7100	36	7100		35
	70													29	6000	7	70
	75													20	- 4800	7	75

DEFINITIONS:

1. Operating radius is the horizontal distance from the axis of rotation before loading to the center of the vertical

3232R25

hoist line or tackle with load applied.
Loaded boom angle, as shown in column headed by is the included angle between the horizontal and longitudinal axes of the boom base after lifting rated load at rated radius.

CHART 3

٠.	U-AU																			
			LO	AD R	ATING	SIN	POU	NDS W	ITH	OUT	RIGGE	RS	FULL	Y EXT	END	ED A	ND SE	Т		
INNED	SECTIO	N EXTENDED		LAT	TICE EXTENS	ION WIT	TH PINNE	D SECTION RI	TRACT	ED			L	ATTICE EXTE	ISION W	ITH PINA	IED SECTION	EXTEN	DED	
O R P A E D R I A U T S I N F G T.	FORALL	SOOMLINETHS BTO 110FT.	O R P A U T S I N F G T.	FORALLE	(1 /2 /1040	O R P A E O R I A U T S I N F G T.	TELI	E /8 / 1040	N F G T.	DE DUC	LOAD	O R P A E D R I A U T S I N F G T.	SEL X DUCTIONS	FT.	O R P A E D R I A U T S I N F G T.	TEL	S FOOT ESCOPIC LOAD SOOM LENGTHS TO 145 FE.	O R P A E O R I A U S I S I N F G T.	SEE DE DUCTK	
FOOT BOOM ONLY	<u>∆</u>	RATED LOAD IN POUNDS	FOOT BOOM ONLY	∆°	RATED LOAD IN POUNDS	119.6 FOOT BOOM ONLY	∆°.	RATED LOAD IN POUNDS	FOOT BOOM ONLY	△.	RATED LOAD IN POUNDS	FOOT BOOM ONLY	△;	RATED LOAD IN POUNDS	FOOT BOOM ONLY	∆°	RATED LOAD IN POUNDS	FOOT BOOM ONLY	<u></u>	RATED LOA IN POUNDS
25	77	21500	25	78	17000	25	78	16400	25			25			25			25		
30	74	19600	30	76	15600	30	76	15100	30			30			30			30		
35	72	17800	35	73	14500	35	73	13900	35	76	7100	35	77	12000	35	78	11900	35		
40	69	16100	40	71	13500	40	71	12900	40	74	6600	40	75	10900	40	76	10700	40		
45	66	14700	45	68	12600	45	68	12000	45	72	6300	45	73	10100	45	74	9900	45	77	6600
50	63	13400	50	66	11800	50	66	11200	50	70	6100	50	71	9300	50	72	9100	50	75	6200
55	60	12300	55	63	11100	55	63	10400	55	69	5700	55	69	8500	55	70	8300	55	73	5800
60	57	10100	60	60	10400	60	60	9800	60	66	5500	60	67	7900	60	67	7700	60	72	5700
65	53	8500	65	57	9100	65	57	8300	65	64	5400	65	65	7300	65	65	7100	65	70	5600
70	50	7300	70	54	7700	. 70	54	7000	70	62	5200	70	63	6800	70	63	6500	70	68	5400
75	46	6100	75	51_	6600	75	51	5800	75	60	5100	75	60	6300	75	61	6000	75	66	5000
80	42	5200	80	48	5600	80	48	4800	80	57	4900	08	58	5900	80	58	5400	80	65	4700
85	38	4400	85	44	4700	85	44	4000	85	55	4600	85	56	5300	85	56	4500	85	63	4300
90	33	3700	90	41	4000	90	40	3200	90	52	4400	90	53	4600	90	53	3800	90	61	4000
00	19	2600	100	32	2800	100	32	2000	100	47	3300	100	47	3400	100	47	2500	100	57	3500
									110	41	2300	110	41	2400	\square			110	52	2600
N	DTE:							Į										120	47	1800

- 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 rating on 60 ft. extensions, deduct 20% from load ratings.

WARNING:

A tipping condition will occur (with or without hook block) with 35 or 60 ft. boom extension erected, if maximum operating radius shown with load rating for respective operating configuration is exceeded.

Load Ratings for Offset Extension with 9000 lbs. Counterweight

					17° O	FFSET EX	TENSI	ON IN	POUNDS	WITH C	OUTRI	GGERS FU	JLLY E	XTENE	DED AND	SET		
		L	ATTICE EXTE	NSION V	NITH PIN	INED SECTIO	N RETRA	CTED				ATTICE EXTE	NSION W	ITH PIN	NED SECTIO	NEXTEN	DED	
	O R P A E D R I A U T S	779	LOAD	O R P D R U T S I		ELESCOPIC	A U T S	1	60 FT.	O R A D I U S I		35 FT.	O R A D R D R U T S	_	S FT. TELESCOMO	O R P A E D I A U S I N F		60 FT.
	N F G T.		ALL BOOM ENGTHS	N F G T.		R ALL BOOM LENGTHS	N F G T.		R ALL BOOM LENGTHS	N F G T.		R ALL BOOM LENGTHS	N F G T.		ALL BOOM ENGTHS	G T.	FO	R ALL BOOM LENGTHS
***	FOR 119.6 FT. BOOM ONLY	₹°°°	RATED LOAD IN POUNDS	FOR 119.6 FT. BOOM ONLY		RATED LOAD IN POUNDS	FOR 144.6 FT. BOOM ONLY		RATED LOAD IN POUNDS	FOR 145 FT. BOOM ONLY		3 TO 145 FT. RATED LOAD IN POUNDS	FOR 145 FT. BOOM ONLY	94.3	RATED LOAD IN POUNDS	FOR 170 FT. BOOM ONLY	<u>∠</u> ;	RATED LOAD IN POUNDS
	35	77	11100	35	77	10400	35		000	35			35			35		
	40	74	10400	40	75	9900	40			40			40			40		
	45	72	9900	45	72	9300	45	78	5400	45	77	9700	45	77	9100	45		
	50	69	9500	50	69	8900	50	76	5200	50	75	9000	50	75	8300	50		
	55	67	9100	55	67	8500	55	74	5100	55	73	8300	55	73	7600	55	78	5200
	60	64	8700	60	64	810 <u>0</u>	60	72	4900	60	70	7700	60	71	7000	60	76	5000
L	65	61	8400	65	61	7800	65	70	4700	65	68	7200	65	68	6500	65	75	4800
	70	58	8100	70	58	7500	70	67	4500	70	66	6700	70	66	6000	70	73	4600
L	75	55	7100	75	55	6500	75	65	4300	75	64	6200	75	64	5600	75	71	4400
	80	52	6100	80	52	5400	80	63	4100	80	61	5800	80	61	5200	80	69	4100
L	85	48	5200	85	48	4400	85	60	3900	85	59	5400	85	59	4800	85	67	3900
	90	44	4400	90	44	3600	90	58	3700	90	56	5000	90	56	4200	90	65	3600
	100	35	3000	100	35	2200	100	52	3500	100	51	3700	100	51	2900	100	61	3100
							110	46	2800	110	44	2600	110	44	1800	110	57	2800
L	000000000	0000000000000	000000000000000000000000000000000000000	00000000000	000000000000					200000000000000000000000000000000000000	000000000000			000000000000000000000000000000000000000	*******************	120	52	2200

NOTES

(32U2843)

- 1. See Main Load Rating Chart on outriggers for warnings, definitions, information and 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 to
- determine load rating.

 5. For boom angles not shown, use rating of next lower boom angle.

 6. 9000 lb. counterweight.

				30° C	FFSE	TEXTENS	ION IN	POU	NDS WITH	OUTR	IGGEF	RS FULLY I	EXTEN	DED A	ND SET			
		L	ATTICE EXTE	NSION V	WITH PIN	INED SECTIO	N RETRA	ACTED				ATTICE EXTE	NSION W	ITH PINI	NED SECTIO	NEXTEN	DED	
	O R A E D I A U S I	DEDUCTION OF THE PERSON OF THE		O R P A E D R I A U T S I		LOAD	O R A D I U S I N F	DEDL	LOAO	O R A D I U S I		55 FT.	O R P D R U T S		S FT.	O R P D I U T S		60 FT.
	N F G T.	LEV	LL BOOM GTHS	N F G T.	LI	ALL BOOM ENGTHS	G T.	L	ALL BOOM ENGTHS	N F G T.		R ALL BOOM LENGTHS	N F G T.	ι	R ALL BOOM ENGTHS	N F G T.	'	DR ALL BOOM LENGTHS
***	FOR 119.6 FT. BOOM ONLY	6910	RATED LOAD IN POUNDS	FOR 119.6 FT. BOOM ONLY	69 1	PATED LOAD IN POUNDS	FOR 144.6 FT. BOOM ONLY	94 T	O 144.6 FT. RATED LOAD IN POUNDS	FOR 145 FT. BOOM ONLY		RATED LOAD IN POUNDS	FOR 145 FT. BOOM ONLY		RATED LOAD IN POUNDS	FOR 170 FT. BOOM ONLY	<u>✓</u>	9.3 TO 170FT. RATED LOAD IN POUNDS 360°
	40	78	8900	40	78	8300	40			40			40			40		
	45	75	8500	45	75	7900	45			45			45_			45		
	50	72	8200	50	72	7600	50			50	77	8100	50	77	7400	50		
	55	70	8000	55	70	7400	55			55	.75	7600	55_	_75	6900	55		
L	60	67	7700	60	67	7100	60	76	4200	60	73	7100	60	73	6400	60		
L	65	6.4	7500	65	6.4	6900	_65	74	4000	65	_71	6600	65	71	5900	_65_	78_	4100
	70	61	7300	70	61	6700	70	72	3800	70	68	6200	70	68	5500	70	76	3900
L	75	57	7200	75	58	6600	75	69	3700	75	66	5900	75	66	5200	75	<u>7</u> 5	3800
L	80	54	6500	80	54	5700	80	67	3600	80	63	5600	80	63	4900	80	73	<u>370</u> 0
	85	50	5500	85	50	4800	85	64	3500	85	61	5300	85	61	4600	85	71	3500
	90	46	4600	90	46	3900	90	62	3400	90	58	5000	90	58	4300	90	69	3300
	100	36	3100	100	36	2300	100	56	3200	100	52	3900	100	52	3200	100	64	2900
	110	19	1800				110	49	3000	110	46	2800	110	46	2000	110	60	2600
Ĺ							120	41	2100	120	38	1900				120	55	2300

For information and warnings about crane operations, see page 10.

(32U2843)



CHART 6

Load Ratings on Tires

LOAD RATINGS IN POUNDS												
O R P A	26.5	5 X 25 - 26	PLY TIRES		OR							
E D R I	STATI	ONARY	PICK & (BOOM CE		E D							
A U	±6° ARC	0000	OVER F		AU							
N F G T.	OVER FRONT	360° ARC	CREEP	2 1/2 MPH	N F G T.							
10	66900	42200	56200	39100	10							
12	57500	35200	48500	33300	12							
15	47100	24800	39800	26900	15							
20	29600	14800	29600	19700	20							
25	19300	9500	19300	14900	25							
30	13600	6300	13600	11500	30							
35	9900	4200	9900	8900	35							
40	7300	2600	7300	6900	40							
45	5400	1500	5400	5300	45							
50	4000		4000	4000	50							
55	2800		2800	2800	55							
60	1900		1900	1900	60							

		LOAD	RATINGS	S IN POUN	D\$	_
	R A	2	9.5 x 25 - 2	8 PLY TIRE	S	O R
E R	D	STAT	ONARY	воом с	CARRY ENTERED	E D
A T I N	U S F T.	±6° ARC OVER FRONT	360° ARC CREEP		2 1/2 MPH	A U T S I N F G T
10		74100	34100	72600	54800	10
12	:	63900	28700	62900	47200	12
15	;	52500	22700	52100	38700	15
20		29600	14800	29600	29200	20
25	;	19300	9500	19300	19300	25
30)	13600	8300	13600	13600	30
35	;	9900	4200	9900	9900	35
40	,	7300	2600	7300	7300	40
45	,	5400	1500	5400	5400	45
50		4000		4000	4000	50
55	,	2800		2800	2800	55
60		1900		1900	1900	60

(3232U42)

CHART 8

(3232U40)

CHA	ART O				
	DEDUCTIONS TO	D BE MADE IN POU		AD RATING	GS
		HOOK E	SLOCK ON PO	WERED BOOM	POINT
нос	KBLOCK	8.5-20 TON	50 TON	8.5-20 TON W/ AUX. SHEAVE	50 TON W/AUX, SHEAVE
HOOK	BLOCK WEIGHT	580	950	740	1100
OWED TTICE T.	35 FT. BOOM EXTENSION	900	1300	1100	1400
STO LATI EXT.	60 FT. TELESCOPIC BOOM EXTENSION	1100	1400	1200	1600
	NOTE: LOAD P&H:	DEDUCTIC SUPPLIED I			(3232U40)

WARNINGS

- 1. Crane load ratings without outriggers depends on tire capacity and condition of tires inflated per table.
- 2. When transporting a load, machine must be on firm, level surface with mechanical houselock engaged.
- 3. Crane load ratings on tires apply only when rear axle lockouts are engaged when swinging 360°.
- 4. Lift loads with minimum boom length; do not exceed 75 feet boom length when lifting on tires.
- 5. Do not attempt lifts on tires with extension erected.6. Maximum recommended boom angle on tires is

66° without load.

INFORMATION

- 1. Deductions must be made from rated loads for stowed lattice extension, optional attachments, hooks and hook blocks, (See Deduction Chart no. 8). Weights of slings and all other load handling devices shall be considered part of the load.
- 2. Ratings above the heavy lines are based on structural competence and not on machine stability.
- 3. It is recommended that outriggers be extended as far as possible and clear of ground when lifting on tires.
- 4. Stability ratings do not exceed 75% of tipping loads.

		TIRE	INFLATION	
	TIRE SIZE	STATIC & CREEP	2 1/2 MPH	TRAVEL
	26.5 X 25-26 PR	80 PSI	65 PSI	55 PSI
Г	29.5 X 25-28 PR	75 PSI	65PSI	55 PSI

DEFINITION:

Creep is motion for less than 200 feet in a 30 minute period and not exceeding 1 mph.



CHART 10

DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS												
			WITHOUT	HOOK	BLOCK ON	POWEREDE	SOOM POINT					
	DESCRIF	PTION	HOOK BLOCK ON BOOM POINT	8.5 - 20 TON	50 TON	8.5 - 20 TON WITH AUXILIARY SHEAVE	50 TON TON WITH AUXILIARY SHEAVE					
	ноок ві	OCK WEIGHT		580	950	740	1100					
LOAD FROM BOOM	35 FT. LATTICE EXTENSION	Stowed Erected only 8.5 - 15 ton Ball 20 ton Block		600 3650 4850 6200	1000 4000 5200 6600	750 3800 5000 6400	1150 4150 5350 6750					
HOISTING LO	35 - 60 FT. LATTICE EXTENSION	Stowed Erected only 8.5 - 15 ton Ball 20 ton Block		600 5650 6850 8250	950 6000 7250 8600	750 5800 7000 8400	1100 6200 7400 8750					
	60 FT. LATTICE EXTENSION	Erected only 8.5 - 15 ton Ball 20 ton Block		5650 7300 9250	6000 7700 9600	5800 7500 9400	6200 7850 9750					
ING LOAD EXTENSION	35 FT. LATTICE EXTENSION	8.5 - 15 ton Ball 20 ton Block	270 580	650 950	850 1150	750 1050	950 1250					
HOISTING LOAD FROM EXTENSIC	35 - 60 FT. LATTICE EXTENSION	8.5 - 15 ton Ball 20 ton Block	270 580	650 950	900 1200	750 1050	950 1300					
HOR	60 FT. LATTICE EXTENSION	8.5 - 15 ton Ball 20 ton Block	270 580	600 900	750 1100	650 1000	850 1150					
NO.	TE: THESE L	NOTE: THESE LOAD DEDUCTIONS APPLY ONLY TO P&H SUPPLIED EQUIPMENT										

(3232R25)

CHART 1

MAIN HOIST REEVING										
3/4" DIA. WIRE ROPE BREAKING STRENGTH 58,800 LBS - 6 X 37 FW IWRC										
PART OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUMLOAD	11000	22000	33000	44000	55000	66000	77000	88000	99000	100000
AUXILIARY HOIST REEVING										
3/4" DIA. WIRE ROPE BREAKING STRENGTH 51,800 LBS. 8 X 19 IWRC SPIN RESISTANT										
PARTOFLINE	1	2	3	4	5	6	7	8	9	10
MAXIMUMLOAD	10000	20000	30000	40000	50000	60000	70000	80000	90000	100000

(3232R25)

Information:

- 1. Crane load ratings on outriggers 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 extensions, optional attachments, hooks and hook blocks (see deductions chart above). 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 inches from the longitudinal axis of the carrier to the outrigger float pivot connection with all load removed from the carrier wheels.
- 5. Counterweight 9000 lbs., none removable.

Warnings:

- 1. Loaded boom angles at specified boom lengths give only an approximation of the operating radius. The boom angle before loading should be greater to account for deflections. Do not exceed the operating radius for rated loads.
- 2. Positioning or operation of powered boom lengths at radii beyond the maximums or minimums shown, is not intended or approved.

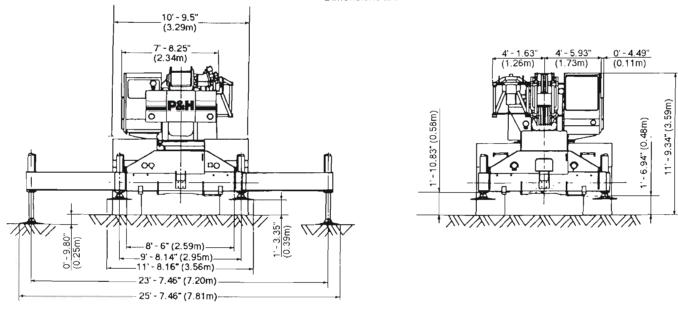
Warnings cont.

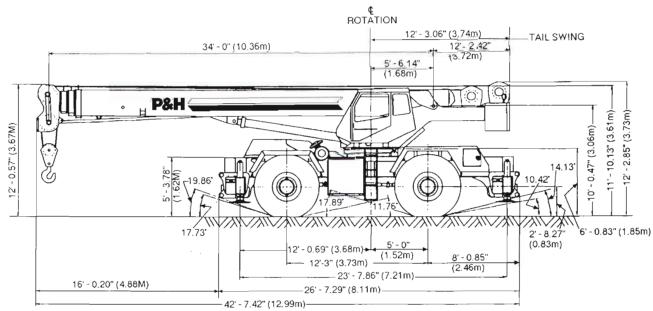
- Positioning or operation of lattice extensions at boom angles beyond the maximums or minimums shown, is not intended or approved.
- 4. For powered boom lengths not shown, use ratings of next longer powered boom. For load radii not shown, use rating of next longer radius.
- 5. Crane load ratings on outriggers are based on freely suspended loads with the machine levelled and standing on a firm uniform supporting surface. No attempt shall be made to move a load horizontally on the ground in any direction.
- 6. Practical working loads depend on supporting surface, wind, and other factors affecting stability, hazardous surroundings, experience of personnel, and proper handling, all of which must be taken into account by the operator.
- 7. The maximum load which may be telescoped is limited by hydraulic pressure, boom angle, and powered boom lubrication. It is safe to attempt to telescope any load within the limits of the load rating chart.
- 8. When lifting a load, all sections of the powered boom must be equally extended within one foot.



General Dimensions

Dimensions are with standard tire size 26.5 x 25.





Turning Circle (Centerline of tires - 4 wheel steer)

Carrier Clearance Circle (4 wheel steer)

Turning Circle (Centerline of tires - front steer)

Machine Clearance Circle (Over boom - 4 wheel steer)

Carrier Clearance Circle (front steer)

Machine Clearance Circle (front steer)

Machine Clearance Circle (Over boom - front steer)

Machine Clearance Circle (Over boom - front steer)

See 10.14" (11.84 m)

42' 5.84" (12.95 m)

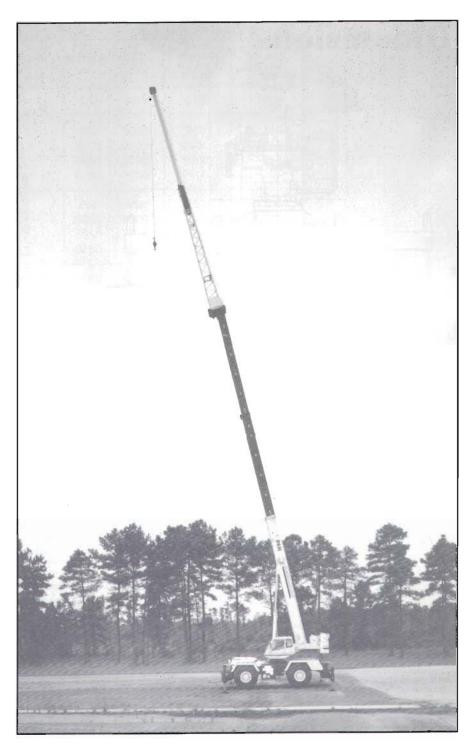
68' 6.44" (20.89 m)

65' 3.86" (19.91 m)

74' 8.06" (22.76 m)

89' 3.65" (27.22 m)







NOTE: All designs, specifications and components of the equipment described above are subject to change at the manufacturer's sole discretion at any time and 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 conditions encountered. The only warranty applicable is our standard warranty for this machine.

Address Inquiries to:



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