

P&H® CENTURY 165

65-ton Rough Terrain Crane 186-ft. (56.7m) maximum boom

specifications

ATTACHMENTS:



BOOMS

BOOM (4 SECTION) (STANDARD): 40 ft. (12.2 m) retracted to 126 ft. (38.4 m) extended length, four section boom consisting of a boom base, two hydraulically extended and retracted sections and a fourth manual section which can be hydraulically extended and retracted with pinning by hydraulic cylinders remotely controlled from the operator's cab. Boom point sheaves are five 17.362" (441 mm) dia. main sheaves with roller bearings and idler sheaves with bronze bearings.

BOOM (3 SECTION) (OPTIONAL): 39 ft. (11.9 m) retracted to 96 ft. (29.4 m) extended length, three section boom consisting of a boom base, two hydraulically extended and retracted sections. Boom point sheaves are five main 17.362" (441 mm) dia. sheaves with roller bearings and idler sheaves with bronze bearings.

EXTENSION (OPTIONAL): 39 ft. (11.9 m) swing around lattice structure boom extension with a single metallic sheave. It can be put into operating condition by pivoting from its stored position on right side of the boom base section and is pinned to the boom head. In the operation position, the extension is offset 2° from the main boom.

TELESCOPIC BOOM EXTENSION (OPTIONAL): 40 ft. (12.2 m) to 60 ft. (18.3 m) swing around 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 using the winch and pinned into position. In the operation position, the extension is offset 2° from the main boom.

EXTENSION OFFSET MECHANISM (OPTIONAL): Pivoting links which allow either boom extension above to be offset to 17° or 30° from the main boom.

AUXILIARY SHEAVE (OPTIONAL): Boom point mounted with single metallic sheave. Usable with any extension configuration.

HOOK BLOCKS (OPTIONAL):

- A) 66 Ton — 5 sheaves with swivel hook and safety latch, for 3/4" (19 mm) wire rope.
- B) 20 Ton — 1 sheave with swivel hook and safety latch, for 3/4" (19 mm) wire rope.
- C) 15 Ton — weighted hook with swivel and safety latch, for 3/4" (19 mm) wire rope.
- D) 8.5 Ton — weighted hook with swivel and safety latch, for 3/4" (19 mm) wire rope.

COUNTERWEIGHTS:

11,930 lbs. (5410 kg.) with 3 section boom.

13,230 lbs. (6000 kg.) with 4 section boom.

1,067 lbs. (484 kg.) auxiliary counterweight to be used on units without an auxiliary winch.



OPERATOR'S CAB STANDARD EQUIPMENT: All roading and crane function controls. Front control console includes: engine water temperature gauge, engine oil pressure gauge, fuel gauge, volt meter, transmission temperature gauge, transmission clutch pressure gauge, hydraulic oil temperature gauge, air pressure gauge, hourmeter, winch high speed indicators, anti-two-block warning, boom angle indicator, boom length and radius indicator, dash light and machine level. Deluxe operator's seat with torsion suspension and vinyl covering, seat belt and fire extinguisher, main winch drum turn indicator and rear steer centering light.

OPERATOR'S CAB OPTIONAL EQUIPMENT: Auxiliary winch drum turn indicator, diesel or propane heater, front window fan, windshield wiper, windshield washer, roof window wiper, rotary roof beacon, tachometer and Lexan windows, rear axle lockout override control and cab air conditioning. Control switches and indicators for automatic pinning system for four section boom.

MISCELLANEOUS UPPER OPTIONS: Load indicating device, floodlights, 360 degree swing lock, winch spooling roller, anti-two-block and load moment shutdown device.



CONTROLS: 15.7 inch (400 mm) diameter steering wheel with warning horn, front console mounted hand control levers for swing, telescope, independent auxiliary winch (optional), auxiliary winch (optional), main winch and boom hoist. Front floor mounted foot pedals for swing brake, boom hoist, service brakes and engine throttle. Front console instrument panel contains ignition and engine "start" and "stop" switch, independent rear steer control switch. Side console has hand throttle control, swing lock control and electrical outrigger panel, transmission control lever, transmission high-low range switch, park brake switch, steering mode selector switch, travel stabilizer switch all standard.



MAIN WINCH (STANDARD): P&H Model 2081 with two speed motor, mounted on rear of the 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 standard.

Drum: 16.614 inch (422 mm) pitch diameter, 22.81 inch (579 mm) wide, 27.75 inch (705 mm) flange diameter.

Cable: .75 inch (19 mm) diameter, 6 x 25 extra improved plow steel. Strength limit 16,800 lbs. (7,519 kg.)

Drum Capacity: 778 ft. (237 m) 5 layers.

Line Pull Maximum: 22,853 lbs. (10,367 kg.) 1st layer, low speed, 17,176 lbs. (7,790 kg.) 5th layer.

Maximum Available Line Pull for starting load mid-air, 5th layer: 15,000 lbs. (6,802 kg.)

Line Speed Maximum (At Engine No Load High Speed): 462 ft./min. (141 meter/min.) 5th layer, high speed.

AUXILIARY WINCH (OPTIONAL): P&H Model 1581 with two speed motor, mounted to rear of revolving frame on the counter-weight. Planetary gearing and equal speed, power raising and lowering. Infinitely variable speed control. Spring applied hydraulically released load holding multi-disc brake is automatic.

Drum: 14.25 inch (362 mm) pitch diameter, 18.5 inch (470 mm) wide, 22.52 inch (572 mm) flange diameter.

Cable (Optional): .75 inch (19 mm) diameter, 6 x 25 extra improved plow steel. Strength limit 16,800 lbs. (7,619 kg.)

Cable (Optional): .75 inch (19 mm) diameter, 8 x 25 spin resistance, extra improved plow steel, 7 x 7 x 1 WRC. Strength limit 10,360 lbs. (4,698 kg.).

Line Pull Maximum: 1581 aux: 18,282 lbs. (8,291 kg.) 1st layer, low speed, 13,223 lbs. (5,997 kg.) 5th layer.

1581 independent aux: 16,157 lbs. (7,329 kg.) 1st layer, low speed.

Maximum Available Line Pull for starting load mid-air, 5th layer: 11,000 lbs. (4,991 kg.).

Line Speed Maximum (At Engine No Load High Speed).

1581 aux: 621 ft./min. (189 meter/min.) 5th layer, high speed.

1581 independent aux: 285 ft./min. (87 meter/min.) 5th layer, high speed.

SHAEVE AND DRUM TO WIRE ROPE RATIOS (F1 FOR DIAMETER)

	Sheave to Wire Rope	Drum to Wire Rope
Main Boom Sheaves .75" Wire Rope	24.15:1	— —
Winch .75" Wire Rope	— —	23.15:1
Aux. Winch .75 Wire Rope	— —	20.0:1

BOOM HOIST: Two 8.268" (210 mm) I.D. cylinders, double-acting. Hydraulically powered raising and lowering with holding valve.

BOOM TELESCOPE: Two 6.5" (165 mm) I.D. cylinders — double-acting. Hydraulically powered raising and lowering with holding valve. Supplied by a single hose loop.

HYDRAULIC SYSTEM

PUMP DRIVE: Gear driven integral with transmission off rear of torque converter housing. Left hand pump drive with SAE "C" 2 and 1 bolt mounting flange and SAE "C" spline for swing and winch boost/steering/outriggers tandem gear pump. Right hand pump drive with SAE "B" 2 bolt mounting flange and SAE "B-B" spline for winch and boom hoist/telescope tandem gear pump. The left hand SAE "C" mounting is equipped with a manual disconnect. Both pump drives have 0.948 pump speed to 1.0 engine speed drive ratio.

PUMPS: One tandem gear pump operating at full load rpm, the cover end section provides 47.3 gpm (179 liter/min.) to the boom hoist and telescope circuits, the shaft end section provides 36.7 gpm (139 liter/min.) to the main and auxiliary winch circuits. One tandem gear pump operating at full load rpm, the cover end section provides 31.7 gpm (120 liter/min.) to the swing circuit, the shaft end section provides 31.7 gpm (120 liter/min.) to the outrigger and steer circuits or winch boost.

OIL RESERVOIR: 177.0 gallons (670 liter) mounted between the left side of the carrier frame.

OIL COOLER: Oil to air, tube and fin type with internal turbulators.

CONTROL VALVES (STANDARD): One single spool valve for swing circuit.

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

One single spool valve for main winch circuit.

CONTROL VALVES (OPTIONAL): One two spool valve with one spool for main winch and one spool for auxiliary winch circuits.

CONTROL VALVES (OPTIONAL): One three spool valves with one spool for main winch, one spool for auxiliary winch and one spool for independent auxiliary winch.

FILTERS: Two return line filters, 7 micron nominal, internally mounted to the hydraulic reservoir.

SWING UNIT: Hydraulic motor driving through gear reducer to pinion gear. Drive pinion supported with outboard bearing housing. 360° continuous rotation to 2.1 RPM full load.

SWING GEAR: Single shear ball swing bearing with internal spur gear.

SWING BRAKE: Spring applied, hydraulically released, wet disc brake, integral with swing reducer. Hand brake control lever mounted on side console. A manual foot pedal applies brake for static holding.

HOUSE LOCK: One position (front) pin-in hole lock manually engaged with house lock lever in cab is standard. A positive 360° position lock is optional.

ELCTRICAL: Electrical system is 24 volt negative ground. Wiring harnesses have protective covering made of braided nylon and are independently clamped to framework. Wire harnesses have environmentally sealed Deutsch connectors. Switches used in operator's cab are environmentally sealed. Toggle type.

**GENERAL**

TYPE: P&H 4 x 4 x 4, 11 ft. (3.37 meter) wide.

WEIGHT: Including roller bearing swing circle, hydraulic outriggers and standard tires (29.5 x 25 E-3) and Caterpillar engine 46,010 lbs. (20,870 kg.).

FRAME: Rectangular frame members of 100,000 psi (70 kg/mm²) and 80,000 psi (56 kg/mm²) yield strength alloy steels reinforced with box constructed crossmembers of 80,000 psi (56 kg/mm²) yield strength steel.



OUTRIGGERS: Hydraulic out and down type. Eight double acting hydraulic cylinders for independent horizontal and vertical motion of each beam operated from the operators cab. Each vertical cylinder is equipped with a holding valve.

OUTRIGGER BEAMS: 80,000 psi (56 kg/mm²) yield strength alloy steel box extending to a maximum spread of 23' 7" (7.2 meter) from centerline of float to centerline float with the machine fully raised on the outriggers. Retracted width of the outriggers without floats is 10' 6" (3.2M).

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

**TRANSMISSION:**

TYPE: Power shift with high/low range with torque converter.

GEARS: 6 speed forward and 3 speed reverse.

GEAR SELECTION: Electrically controlled and operated.

RANGE SELECTION: Electrically controlled and pneumatically operated.

REAR AXLE DISCONNECT: 2 wheel drive/4 wheel drive. Electrically controlled and pneumatically operated.

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

AIR CLEANER: Donaldson "FHG16-0049" two-stage primary dry air cleaner with "Duralife" filter media restriction indicator.

MUFFLER: "Silent Partner" muffler.

ELECTRICAL: 24 volt system with negative ground. Two kinds of batteries are selective (1) Two 8D batteries with a reserve capacity of 442 min. and CCA at 0°F of 970 amps. (2) Two 4D batteries with reserve capacity of 308 min. and CCA at 0°F of 791 amps. Harnesses have environmentally sealed Deutsch connectors. 24 volt starting system.

FUEL TANK: One steel tank, 79 gal. (300 liter), mounted on right side of carrier between the tires.

FRONT AXLE: Planetary drive and steer axle. 26.325:1 total reduction.

REAR AXLE: Planetary drive and steer axle. 26.325:1 total reduction. No-spin differential is optional.

SERVICE BRAKES: Air over hydraulic brakes on all four wheels. Disc type. Two caliper for each wheel.

PARKING BRAKES: Maxi spring set air chamber on 13.11 inch x 2.95 inch (333 mm dia. x 75 mm wide) drum and shoe on input yoke of rear axle. Spring applied and air released for safety.

SUSPENSION: Rigid mounted front axle. Rear axle is pivot mounted with automatic hydraulic lockout cylinders. Total oscillation of 10.4 inch (265 mm) is attainable.



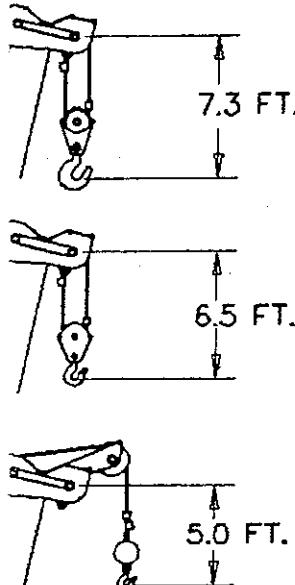
STEERING: Hydrostatic type pressure compensated system fully controlled by a steering wheel with two hydraulic power assist cylinders on each axle.

STEERING MODES: Front steer only, crab steer and four wheel steer and independent rear steer are standard. Activation of the different steering modes is by electrical switch on the side control console; except independent rear steer, which is controlled by toggle switch on the front console.

TIRES: Optional 26.5 x 25-26 PR tubeless rock tread (E3). Standard 29.5 x 25-28 PR tubeless rock tread (E3).

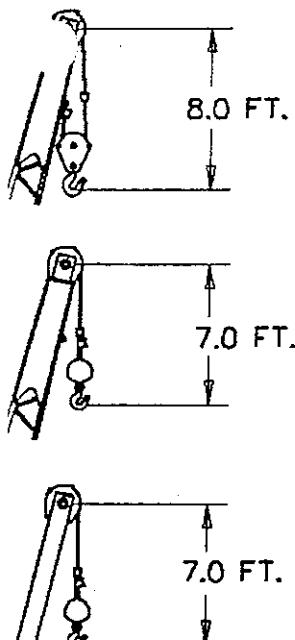
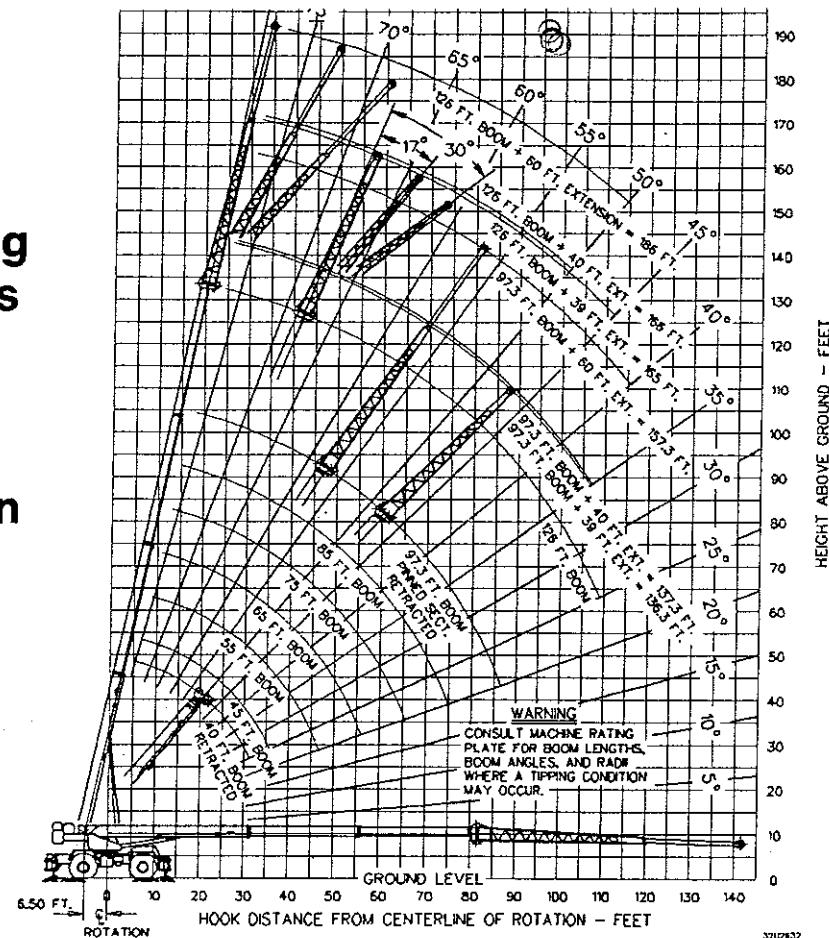
LOWER STANDARD EQUIPMENT: Sliding engine hood, fenders with side storage compartments, tool box, tow lugs, hydraulic pump disconnect, automatic moisture ejector for air system, rear axle disconnect, oil to water transmission cooler and oil to air hydraulic oil cooler, back-up alarm and highway lights.

LOWER OPTIONAL EQUIPMENT: Rear view mirrors, starting aid, front and rear pintle hooks, alcohol evaporator installation, air dryer installation, tire inflation kit, oscillating axle lockout override.



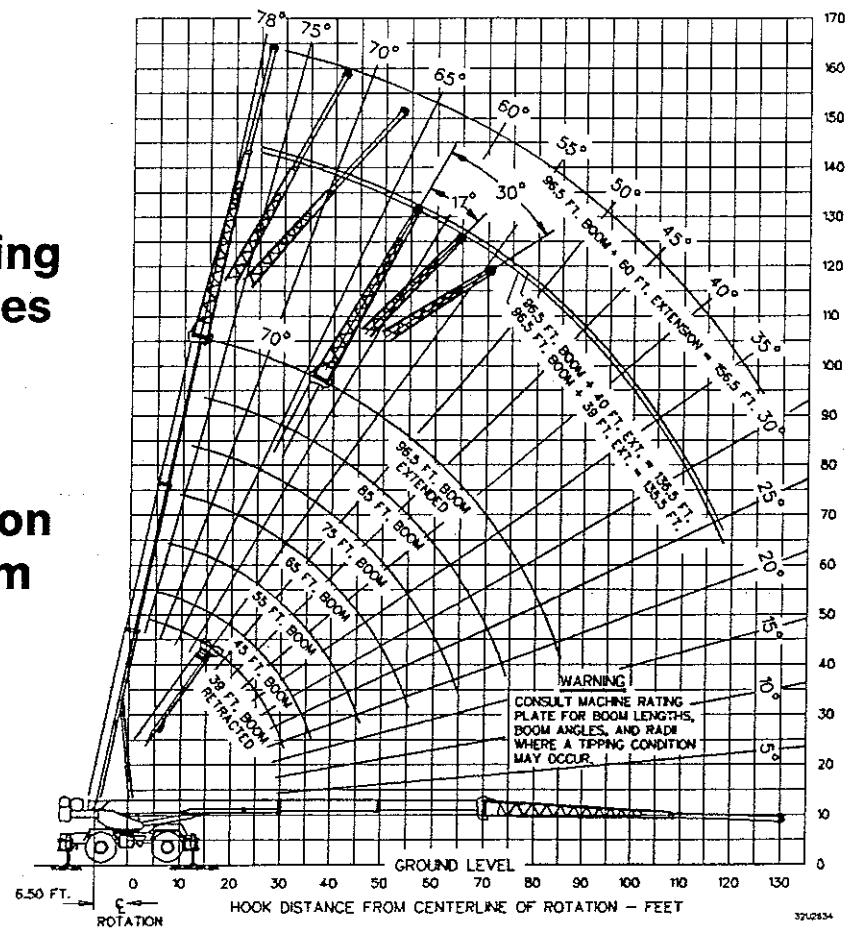
Working Ranges

4 Section Boom



Working Ranges

3 Section Boom



LOAD RATINGS — 4 Section Boom

PCSA Class 10-278

OPERATOR STATION	RATED LOAD IN POUNDS ON OUTRIGGERS		POWERED BOOM LENGTH IN FEET - MANUAL RETRACTED										OPERATOR RIGHT		
	BASE	BOOM	1ST			2ND			3RD			SET DEDUCTIONS			
			LONGITUDINAL	HORIZONTAL	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	LOAD	
LOADED BOOM ANGLE	40 FT.	LOADED BOOM ANGLE	45 FT.	LOADED BOOM ANGLE	55 FT.	LOADED BOOM ANGLE	55 FT.	LOADED BOOM ANGLE	75 FT.	LOADED BOOM ANGLE	85 FT.	LOADED BOOM ANGLE	97.5 FT.	OPERATOR RIGHT	
	360°		360°		360°		360°		360°		360°		360°		
10	68	130000	70	102000	74	94800								10	
12	65	115000	68	98400	72	88000	75	80400						12	
15	60	90000	63	90000	69	84000	73	72800	75	80500				15	
20	51	68500	56	68500	63	68500	66	63500	71	53000	74	44500	78	33000	
25	40	53000	48	53000	57	53000	63	53000	67	45000	71	39000	73	32500	
30	26	42000	38	42000	50	42000	58	42000	63	40000	67	34200	70	29000	
35			25	35000	43	35000	52	35000	59	35000	63	30200	67	25500	
40				34	27800	46	27800	54	27800	59	27000	64	22700	40	
45					22	21700	39	21700	49	21700	55	21700	61	20500	
50						31	17400	43	17400	50	17400	57	17400	50	
55							21	14300	37	14300	46	14300	53	14300	55
60								29	11600	40	11800	49	11600	60	
65									19	9600	35	9800	45	9600	65
70										28	7900	40	7900	70	
75											18	6500	35	6500	75
80												29	5300	80	
85													22	4300	85

INFORMATION:

CRANE LOAD RATINGS DO NOT EXCEED 85% OF TIPPING.

RATINGS ABOVE THE HEAVY LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.

EDDCTIONS 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 EQUIPMENT ARE NOT TO BE SUBTRACTED.

RANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS FULLY EXTENDED AND SET TO DISTANCE OF 11 FEET 9 3/4 INCH FROM THE LONGITUDINAL AXIS OF THE CARRIER TO THE CENTER LINE OF THE OUTRIGGERS.

UTRIGGER FLOAT PIVOT CONNECTION WITH ALUMINUM ROD

DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS							
HOISTING LOAD FROM POWERED BOOM	DESCRIPTION		WITHOUT HOOK BLOCK ON BOOM POINT	HOOK BLOCK ON POWERED BOOM POINT			
	HOOK BLOCK WEIGHT		8.5 - 20 TON	65 TON	8.5 - 20 TON WITH AUXILIARY SHEAVE	65 TON WITH AUXILIARY SHEAVE	
	39 FT. LATTICE EXTENSION	STOWED		580	1130	775	1325
		ERECTED ONLY		800	1340	990	1530
		8.5-15 TON BALL		4070	4510	4280	4800
		20 TON BLOCK		3760	6300	5950	6490
	40 FT. LATTICE EXTENSION	STOWED		820	1170	820	1360
		ERECTED ONLY		5680	6220	5870	6410
		8.5-15 TON BALL		7390	7930	7580	8120
		20 TON BLOCK		7800	8340	7990	8540
60 FT. LATTICE EXTENSION	ERECTED ONLY			5680	6220	5870	6410
	8.5-15 TON BALL			7840	8380	8030	8570
	20 TON BLOCK			8360	8900	8550	9090
39 FT. LATTICE EXTENSION	8.5-15 TON BALL	470	820	1140	930	1250	
	20 TON BLOCK	580	930	1250	1040	1370	
40 FT. LATTICE EXTENSION	8.5-15 TON BALL	470	810	1130	920	1240	
	20 TON BLOCK	580	920	1240	1040	1360	
60 FT. LATTICE EXTENSION	8.5-15 TON BALL	470	770	1050	870	1150	
	20 TON BLOCK	580	880	1160	980	1260	

NOTE: THESE LOAD DEDUCTIONS APPLY ONLY TO P&H SUPPLIED EQUIPMENT
SEE INFORMATION NOTE #31

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	135000	150000

AUXILIARY HOIST BEAVING

3/4 DIA. WIRE ROPE BREAKING STRENGTH 51800 LBS. 8 X 25 IWRC

S/8 DIA. WIRE ROPE BREAKING STRENGTH 36,800 LBS. 8 X 25 IWRC
S/8 DIA. WIRE ROPE BREAKING STRENGTH 41,200 LBS. 8 X 25 FW IWRC

1	2	3	4	5	6	7
10000	200000	100000	10000	200001		

LOAD 10000 20000 30000 40000 50000 60000 70000 80000 90000 100000

LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED

PINNED SECTION EXTENDED		LATTICE EXTENSION WITH PINNED SECTION RETRACTED	
RADIUS	OPERATING FT.	RADIUS	OPERATING FT.
SEE DEDUCTIONS	SEE DEDUCTIONS	39 FT.	40 FT.
LOAD	LOAD	SEE DEDUCTIONS	SEE DEDUCTIONS
FOR ALL BOOM LENGTHS 68.7 TO 126 FT.	FOR ALL BOOM LENGTHS 79 TO 134.3 FT.	FOR ALL BOOM LENGTHS 80 TO 137.3 FT.	FOR ALL BOOM LENGTHS 100 TO 157.3 FT.
LOADED BOOM ANGLE	LOADED BOOM ANGLE	LOADED BOOM ANGLE	LOADED BOOM ANGLE
ONLY	ONLY	ONLY	ONLY
340°	360°	360°	360°
30 78 20700	30 77 16000	30 77 15600	30 77 8000
35 74 19000	35 75 14800	35 75 14200	35 77 10000
40 71 17500	40 72 13700	40 73 13000	40 75 9300
45 69 18500	45 70 12800	45 71 12100	45 73 8600
50 67 15000	50 68 12000	50 68 11100	50 72 8000
55 64 14000	55 66 11000	55 66 10300	55 70 7500
60 61 12800	60 64 10500	60 64 9700	60 68 7000
65 59 11800	65 61 9900	65 61 9100	65 66 8800
70 56 9900	70 59 9400	70 59 8600	70 64 6200
75 53 8500	75 56 8900	75 57 8100	75 62 5900
80 49 7300	80 53 7600	80 54 6900	80 60 5600
85 46 6300	85 51 6800	85 51 5900	85 57 5300
90 43 5300	90 48 5600	90 48 4900	90 55 5000
95 35 3800	100 41 4100	100 42 3400	100 51 4500
100 25 2500	110 34 2800	110 34 2100	110 45 3200
OTE:			120 39 2200

OTE:
WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES,
NOT OPERATING RADIUS TO DETERMINE LOAD RATING.

FOR BUCKET RATINGS ON TO-TO EXCAVATORS, SEE PAGE 11

FOR BUCKET RATINGS ON 60 FT. EXTENSIONS, DEDUCT 20%
FROM LOAD RATINGS.

WARNING: A TIPPING CONDITION WILL OCCUR (WITH OR WITHOUT A HOOKERBLOCK) WITH 39, 40, OR 60 FT. BOOM EXTENSION DUE TO THE FOLLOWING CONDITIONS:

1. DO NOT EXCEED 120 FT. OPERATING RADIUS WITH PINNED MAIN BOOM SECTION RETRACTED.
 2. DO NOT EXCEED 140 FT. OPERATING RADIUS WITH PINNED MAIN BOOM SECTION EXTENDED.

**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**

LOAD RATINGS — 3 Section Boom

PCSA Class 10-270

IN POUNDS	
POWERED BOOM POINT	
6.5 - 20 TON WITH AUXILIARY SHEAVE	65 TON WITH AUXILIARY SHEAVE
775	1325
990	1530
4260	4800
5950	6490
6360	6900
820	1380
5870	6410
7580	8120
7990	8510
5870	6410
8030	8570
8550	9090
930	1250
1040	1370
920	1240
1040	1360
870	1150
980	1260

PLIED EQUIPMENT.

X 25 FW IWRC

8	9	10
120000	130000	-

X 25 IWRC

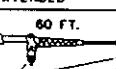
X	Y	IWRC
9	10	

80000 90000 100000

OPERATING RADIUS IN FEET	RATED LOADS IN POUNDS ON OUTRIGGERS								OPERATING RADIUS IN FEET
	39 FT. BOOM ANGLE 360° SEE DEDUCTIONS	45 FT. BOOM ANGLE 360° SEE DEDUCTIONS	55 FT. BOOM ANGLE 360° SEE DEDUCTIONS	65 FT. BOOM ANGLE 360° SEE DEDUCTIONS	75 FT. BOOM ANGLE 360° SEE DEDUCTIONS	85 FT. BOOM ANGLE 360° SEE DEDUCTIONS	95.5 FT. BOOM ANGLE 360° SEE DEDUCTIONS		
10	68 130000	71 102000	75 94800						10
12	64 115000	68 98400	72 88000	76 80400					12
15	59 90000	64 90000	69 84000	73 72800	76 60500				15
20	50 68500	56 68500	63 68500	68 63500	72 53000	74 44500	76 33000		20
25	39 53000	48 53000	57 53000	63 53000	68 45000	71 39000	74 32500		25
30	24 42000	38 42000	50 42000	58 42000	63 40000	67 34200	70 30000		30
35		25 34400	43 34400	52 34400	59 34400	63 30200	67 28700		35
40			34 27000	46 27000	54 27000	59 27000	64 24000		40
45				23 21300	40 21300	49 21300	55 21300	60 21300	45
50					32 17500	43 17500	51 17500	57 17500	50
55						21 14500	37 14500	46 14500	53 14500
60							29 11900	41 11900	49 11900
65								35 10100	44 10100
70									40 8500
75									45 7200
80									50 6000
85									55 5100

INFORMATION:

- CRANE LOAD RATINGS DO NOT EXCEED 85% OF TIPPING.
- RATINGS ABOVE THE HEAVY LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.
- 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.
- 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.
- COUNTERWEIGHT OF 12000 LBS. WITH NONE REMOVABLE.

EXTENDED	
60 FT.	
	
SEE DEDUCTIONS	
LOAD	
OR ALL BOOM LENGTHS 78 TO 135.5 FT.	
RATED LOAD IN POUNDS	
360°	
78 8000	
75 7500	
75 7000	
75 6600	
71 6100	
70 5700	
18 5400	
16 5100	
15 4800	
13 4500	
9 4000	
6 3500	
2 2800	
7 1900	
EXTENDED.	

LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED									
LATTICE EXTENSION		39 FT.		40 FT.		60 FT.		80 FT.	
OPERATING RADIUS IN FEET	BOOM ANGLE	OPERATING RADIUS IN FEET	BOOM ANGLE	OPERATING RADIUS IN FEET	BOOM ANGLE	OPERATING RADIUS IN FEET	BOOM ANGLE	OPERATING RADIUS IN FEET	BOOM ANGLE
FOR 135.5 FOOT BOOM ONLY	360°	FOR 136.5 FOOT BOOM ONLY	360°	FOR 156.5 FOOT BOOM ONLY	360°	FOR 180.5 FOOT BOOM ONLY	360°	FOR 200.5 FOOT BOOM ONLY	360°
78 8000		75 7500		70 7000		65 6600		60 6000	
75 7500		72 14000		73 13000		75 9400		77 10000	
75 7000		70 13000		70 12100		73 8700		73 8000	
75 6600		68 12000		68 11000		69 7500		69 7000	
71 6100		66 11000		64 9600		66 6600		68 7000	
70 5700		63 10500		61 9100		64 6200		65 5500	
18 5400		61 10000		59 8500		62 5900		64 5600	
16 5100		58 9500		56 8000		60 5600		62 5300	
15 4800		56 8900		54 7000		59 5600		61 5100	
13 4500		53 7700		51 6000		55 5000		57 4800	
9 4000		50 6700		48 5100		52 4500		54 4100	
6 3500		47 5800		41 3600		45 3400		49 3200	
2 2800		33 3200		34 2500		38 2500		42 2200	
7 1900		23 2200		24 1500		32 1600		38 1500	

WARNING:

- DO NOT EXCEED 130 FT. RADIUS (WITH OR WITHOUT HOOK BLOCK) WITH 80 FT. BOOM EXTENSION OR A TIPPING CONDITION WILL OCCUR.
- NOTE:
- WHEN BOOM IS NOT FULLY EXTENDED USE ONLY BOOM ANGLES, NOT OPERATING RADIUS TO DETERMINE LOAD RATING.
 - FOR BOOM ANGLES NOT SHOWN USE RATING OF NEXT LOWER BOOM ANGLE.
 - FOR BUCKET RATINGS ON 60 FT. EXTENSION, DEDUCT 20% FROM LOAD RATINGS.
 - THE MAXIMUM LOAD WHICH MAY BE TELESCOPED IS LIMIT HYDRAULIC PRESSURE, BOOM ANGLE, AND POWERED BOOM LUBRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE A LOAD WITHIN THE LIMITS OF THE LOAD RATING CHART.
 - WHEN LIFTING A LOAD ALL SECTIONS OF POWERED BOOM BE EQUALLY EXTENDED WITHIN ONE FOOT.

DEFINITIONS:

- OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM AXIS OF ROTATION BEFORE LOADING TO THE CENTER OF VERTICAL 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 LOAD AT RATED RADIUS.

ATED
SAFE
A.I.A.C.

LOAD RATINGS FOR OFFSET EXTENSION WITH 126 FOOT BOOM

**LC
PC**

OPERATING RADIUS FT.	RATE IN POUNDS
36	9300
40	8900
45	8500
50	8100
55	7800
60	7500
65	7200
70	7000
75	6800
80	6600
85	6400
90	6200
100	4500
110	3200
120	2500
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**POWER PLANTS:**

MAKE: Detroit Diesel Allison 6V53T (Optional).
 MAX. HP: 228 HP (170 kw) at 2600 rpm.
 MAX. TORQUE: 534 ft./lbs. (74 kg. - m) at 1600 rpm.

NO. CYL: 6 cylinder, 3.875 inch (98 mm) bore, 4.50 inch (114 mm) stroke.

DISP: 318 cu. in. (5.21 liter).

CYCLE: 2.

ALTERNATOR: Leece Neville 24 volt, NEG GRN 65 amp.

ELECTRICAL: 24 volt run, 24 volt starting.

ASPIRATION: Turbocharged.

AIR COMPRESSOR: 12 cfm @ 1250 rpm (340 liters/min.).

*THEORETICAL PERFORMANCE: Low Gear 2.2 mph (3.5 KM/HR) 47% grade at 1.0 MPH.

High Gear 24.4 mph (39 KM/HR) 4% grade

MAKE: Caterpillar 3208T (Standard).

MAX. HP: 225 HP (168 kw) at 2600 rpm.

MAX. TORQUE: 564 ft./lbs. (78 kg. - m) at 1300 rpm.

NO. CYL: 6 cyl., 4.50 inches (114 mm) bore, 5.00 inch (127 mm) stroke.

DISP: 636 cu. in. (10.42 liter).

CYCLE: 4.

ALTERNATOR: 24 volt, NEG GRN 50 amp.

ELECTRICAL: 24 volt run, 24 volt starting.

ASPIRATION: Turbocharged.

AIR COMPRESSOR: 12 CFM @ 1250 RPM (340 liters/min.)

*THEORETICAL PERFORMANCE: Low Gear 2.2 mph (3.5 KM/HR) 48% grade at 1.0 mph.

High Gear 24.4 mph (39 KM/HR) 4% grade

*Theoretical performance is based on the following:

GVW: 93,700 lbs. (42,500 kg.)

Front Tires: 29.5 x 25 E3.

Rear Tires: 29.5 x 25 E3.

Counterweight: 13,230 lbs. (6,000 kg.).

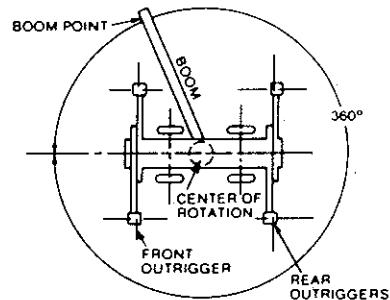
Boom: 40 ft. (12 m) to 126 ft. (38.4 m).

Speed and gradeability will vary due to engine performance, vehicle weight and optional tires. Gradeability based on SAE J688.

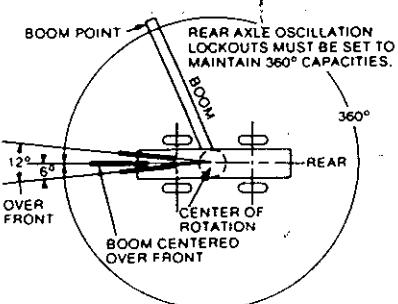
	WEIGHT DISTRIBUTION					
	POUNDS		KILOGRAMS			
	GROSS	FRONT	REAR	GROSS	FRONT	REAR
BASIC CARRIER	30360	15091	15269	13771	6845	6926
BASIC UPPER	6832	1495	5337	3099	678	2421
STD. OPT. FOR 65 TON						
126 FT. 4SECT. BOOM	21473	28389	-6916	9740	12877	-3137
EASYRIDE B.H.CYL. INST.	3386	3170	216	1535	1438	98
13230 LB. CTWT.	13241	-7187	20428	6006	-3260	9266
MAIN WINCH (2081)	1799	-664	2463	816	-301	1117
M.W. ROPE .75DIA X550 FT.	584	-94	678	265	-43	308
SLAB CTWT. OR AUX WINCH	1085	-611	1698	493	-277	770
CAT 3208T ENG. W/P-SHIFT	3569	2926	640	1619	1327	292
29.5X25 E-3 TIRES	7363	3682	3682	3340	1670	1670
REAR AXLE INST. STD.	4718	-7	4725	2140	-3	2143
SINGLE POS. HOUSE LOCK	11	6	5	5	3	2
60/65 TON-55HV. HKBLK. HOOKED ON FRONT O/R FOR TRAVEL	1122	1875	-753	509	851	-342
STEEL BOOM POINT SHV. & POINT PIN	408	1221	-813	185	554	-369
BASIC MACHINE	95547	49377	46170	43524	22402	21122
ADJUSTMENTS FOR OPTIONS:						
ATTACHMENT OPTIONS:						
AUX. SHEAVE INST.	154	481	-326	70	218	-148
40 TO 60 FT. EXT. INST.	2805	3791	-986	1272	+1720	-448
20 TON-ISHV. HOOKBLOCK	580	1736	-1156	263	787	-524
15 TON-BALLHOOK ON AUX. SHV.	467	1425	-958	161	596	-435
8.5 TON-BALLHOOK ON AUX. SHV.	265	809	-544	120	367	-247
OFFSET BOOM EXT. INST. MTL.	148	437	-289	67	198	-131
B.H. CYL. W/O EASYRIDE	-254	-94	-160	-115	-43	-72
39 FT. BM. EXT. INTSTL.	1752	2716	-964	795	1232	-437
POWER PLANT OPTIONS						
DDA 6V53T ENG. W/P-SHIFT	60	49	11	27	22	5
REAR AXLE INST. NO-SPIN	0	0	0	0	0	0
WINCH OPTIONS						
INDEPENDENT MAIN & AUX. WINCH	49	3	46	22	1	21
A.W. ROPE .75DIA X525 FT.	558	-313	871	253	-142	395
CAB OPTIONS						
HEATER-DIESEL	55	3	52	25	1	24
HEATER-LP	53	3	50	24	1	23
LP TANK-FULL	49	1	48	22	0	22
FLOODLIGHTS	29	32	-3	13	14	-1
MULTI-POSITION HOUSELOCK	42	24	-18	19	11	8
MISC. OPTIONS						
PINTLE HOOK FRONT	11	15	-4	5	7	-2
PINTLE HOOK REAR	11	-7	18	5	-3	8
60/65 TON HOOKBLOCK @ BM POINT	0	1484	-1484	0	673	-673

areas of operation

ON OUTRIGGERS



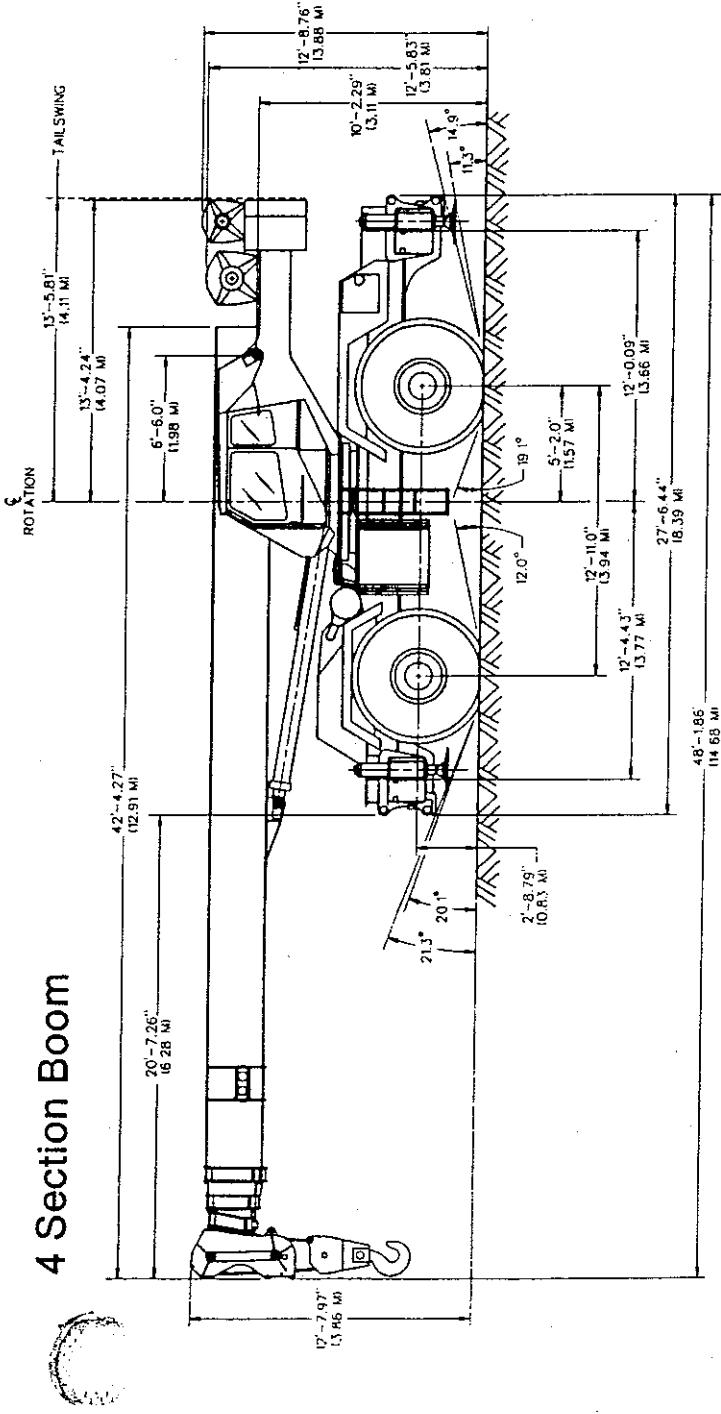
ON TIRES





dimensions

4 Section Boom



3 Section Boom

