



P&H[®] Century T-500

***Hydraulic Truck Crane
50 Ton Maximum Capacity
170 ft. (51.8 m) Boom plus Extension***



- Travels over 50 mph highway speed.
- Roadable in most states.
- Four-plate boom, welded inside and out gives superior strength. No derate for bucket work.
- Two swingaway lattice extensions are available: a one piece, 35' extension and a telescopic 35' to 60' extension. The 35' extension has a removable point section for easy conversion to telescopic type. Both can be offset to 17° or 30° for up and over reaches.
- Extra rugged construction for long life on the tough jobs.
- P&H winches have 'bent axial' piston motors, strong line pulls, fast line speeds.
- Operator's cab is roomy, vibration isolated, with deluxe seat for comfort, handy controls for easy operation.

Specifications



Specifications

ITEM
NO.

This P&H crane meets the requirements of ANSI B30.15 (1982). 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 Century II, Inc.

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" (440mm) dia. main metallic sheaves with roller bearings and two idler sheaves with bronze bearings.

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

For performance characteristics, see Chart no. 1, Crane Range Diagram, and Charts nos. 2, 3, 8 and 9, Lifting Capacities on Main Boom.

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

Counterweight: 8,000 lbs (3630 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 crane function controls. Front control console includes: engine water temperature gauge, engine oil temperature gauge, hydraulic oil temperature gauge, air pressure gauge, fuel gauge, volt meter, winch high speed indicators; main winch drum turn indicator, dash light, electrical horn, windshield wiper, tachometer. Deluxe operator's seat with torsion suspension and vinyl covering, fire extinguisher and seat belts.



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 swing brake, boom telescope and engine throttle. Front console instrument panel contains ignition switch, hand throttle control, swing lock control, electrical outrigger control panel tachometer, oil pressure, voltage, water temperature and fuel level gauges.

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

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

Operational Aids

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

Krueger (HAP) boom angle indicator with audio-visual warning.

Winches



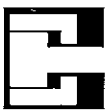
Main Winch: P&H model 1580 with two speed, bent axial piston motor, mounted to rear of revolving frame. Planetary gearing and equal speed, power raising and lowering. Infinitely variable speed control. Spring applied, hydraulically released load holding multi-disc brake is automatic. Complete with 550' of .75" wire rope.

Drum:	15" (381mm) pitch diameter 18.5" (479mm) wide 23.5" (597mm) flange diameter
Wire Rope:	.75" (19mm) dia. 6 x 25 extra improved plow steel with 7x7 IWRC. Strength limit: 16,800 lbs. (7,619 kg).
Drum Capacity:	554 ft. x .75" (19mm) dia., 5 layers.
Line Pull (max.):	18,282 lbs. (8,291 kg) 1st layer, low speed. 13,223 lbs. (5,997 kg) 5th layer.
Available Line Pull (for starting loads in mid-air) (max.):	11,000 lbs. (4991 kg) 5th layer
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. 5, Hoist Reeving, for rope capacities and parts of line required.

Auxiliary Winch: See Optional Equipment.

SHEAVE AND DRUM TO WIRE ROPE RATIOS: (Pitch Diameters)	Sheave to Wire Rope	Drum 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 7.874" (200mm) I.D. cylinders, double-acting. Hydraulically powered raising and lowering with holding valve.

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 of the hydraulic reservoir. All return oil is filtered. Indicators external.

Pump Drive: Driven off carrier engine crankshaft, with manual pump disconnect for highway travel. 1.260 pump speed to 1.0 engine speed drive ratio.

Pumps: One tandem gear pump operating at 2646 full load rpm, with the first section providing 51.7 gpm (196 l/m) to the boom hoist and telescope circuits, and the second section providing 42.5 gpm (161 l/m) to the main and auxiliary winch circuit.

One tandem gear pump operating at 2646 full load rpm, with the first section providing 27.4 gpm (104 l/m) to the outrigger and winch boost circuits, and the second section providing 35.1 gpm (133 l/m) to the swing circuit.

One Vickers vane pump, driven from the engine accessory drive, operating at 2100 full load rpm, provides 19.5 gpm (74 l/m), regulated to 8 gpm (30 l/m) to the steering circuit.



Oil Reservoir: 172 gallons (651 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 auxiliary winch circuits.

Control lever shut-off device for anti-two block, boom angle indicator and load moment systems.

Swing System



Swing Unit: Hydraulic motor driving through gear reducer to pinion gear. 360° continuous rotation to 2.4 rpm full load.

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

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

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

Carrier



Type: P&H 8 x 4

Weight: Including ball bearing swing circle, hydraulic outriggers, and standard tires: 34,099 lbs. (15,447 kg).

Frame: Rectangular frame members of 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. Engine frame is channel construction of 47,000 psi (3300 kg/cm²) yield strength alloy steel.



Outriggers: Hydraulic out and down type. Eight double-acting hydraulic cylinders for independent horizontal and vertical motion of each beam operated from the operator's cab or at each side of the carrier. 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 9' 10" (3.0 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.

Steering: Hydraulic powered gear and integral valve with a hydraulic power assist cylinder on each front axle. Tilt and telescope steering column standard.



Cab: One man, left side, low profile fully enclosed all-weather steel cab with full vision safety glass. Cab is cushion mounted for vibration isolation.

Cab Equipment: Contains all controls and instrumentation, including illuminated instrument panel with speedometer, tachometer, hour meter, voltmeter, air pressure gauges, low air pressure indicator lights, fuel gauge, oil pressure gauge, water temperature gauge, air horns, west coast mirrors, electric windshield wiper, windshield washer, engine conditioning warning system with noise alarm and warning light for high temperature and low oil pressure, heater and defroster, Deluxe operator's seat with torsion suspension and vinyl covering, seat belts.

Lights: Dual headlights, taillights, stop lights, front and rear direction signals with emergency flashers, rear license plate light, front, rear and side clearance lights with reflectors, dome light, and front and rear identification lights.

Miscellaneous Carrier Equipment: Front bumper, full fenders, sliding engine hood, tow hooks front and rear, carrier mounted boom rack, dunnage boxes, float storage racks, audio back-up warning device, fire extinguisher.

Brakes, Service: Front axles - air operated, cam actuated drum and shoe type.

Rear axles - air operated, spring type safety chambers, cam actuated, drum and shoe type.

Brakes, Parking: Cam actuated, drum and shoe type on rear axles. Spring applied, air released for safety.

Front Axles: Tubular tandem.

Rear Axles: Single reduction with interaxle differential. Ratio 6.17:1.

Suspension: Front axles: - four spring mounted tandem with torque rods.

Rear axles - Solid bogie mounted tandem with torque rods.

Transmission: Road Ranger RTO-11613, 13 speeds forward, 3 reverse.

Clutch: Spicer 14" (356mm) two plate with asbestos linings, coaxial torque dampener, upshift clutch brake and air actuation assist.

Radiator: Water to air, tube and fin type core. Thermostatic temperature controlled.

Air Cleaner: Donaldson single-stage primary dry air cleaner with "Duralife" filter media.

Muffler: Donaldson - muffler and resonator.

Electrical: 24 volt system with negative ground. Two 8D batteries with a reserve capacity of 398 min. and CCA at 0°F of 885 amps. Wire harnesses have environmentally sealed Deutsch connectors.

Fuel Tank: FWA approved steel tank, 80 gal. (303 liter) mounted on right side of carrier, behind front outriggers.

Tires: Front 15:00 R 22.5 18 ply; rear 11:00 x 20 14 ply duals.

See Chart no. 15 for proper tire inflation.



Power Plant

Make:	Detroit Diesel Allison 6L71TA-DDEC
Max. Horsepower:	270 hp (202 kw) @ 2100 rpm
Max. Torque:	850 ft.lbs. (117.5 kg/m) @ 1200 rpm
No. Cylinders:	6
Bore & Stroke:	4.25" (107.9mm) x 5.0" 127mm)
Displacement:	426 cu. in. (6.98 liters)
Cycles:	2
Alternator:	Delco 24 volt, 65 amp
Aspiration:	Turbocharged
Air Compressor:	Bendix TU-FLO 501



Performance:

GVW: 77,000 lb (34,920 kg), tires: 15:00 R 22.5 front, 11:00 x 20 rear, counterweight 8000 lbs.

Low gear: 2.2 mph (3.5 km/hr) 35% grade
High gear: 51 mph (82 km/hr) 1.1% grade

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

End Basic Machine

See page 4 for Optional Equipment and Accessories



Optional Equipment and Accessories

Attachment Options and Accessories

- ITEM NO.**
- 125 Lattice Extension:** 35 ft. (Item 145 included w/ new machine). 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 section. 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. (Item 150 included w/ new machine). 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 anti-two-block material.
- For performance characteristics see Chart no 1: Crane Range Diagram, and Chart nos. 3, 6, 7, 9, 10 and 11: 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.
- 145** Material for storing Item 125, 35' extension, on the right side of boom. (For future installation of extension).
- 150** Material for storing Item 135, 35' to 60' extension, on right side of boom. (For future installation of extension).
- 160 Auxiliary Boom Point Sheave:** Boom point mounted with single metallic sheave, includes anti-two block material.
- 185 Counterweight:** 8,000 lbs. (3630 kg) with removable 7525 lbs. (3414 kg) insert, removable with a self-contained raising or lowering device using the winch. Replaces standard, non-removable 8000 lbs. counterweight.
- 205 Auxiliary Winch:** P&H model 1580, same as main winch, mounted to rear of revolving frame on the counterweight.
- 220 Wire Rope for Auxiliary Winch:** .75" x 460', 8 x 19 spin resistant
- 230 Drum Turn Indicator:** For auxiliary winch, mechanical.
- 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
- 265 Independent Winch Control:** Two pump circuit to give independent control of main and auxiliary winches.

Miscellaneous Options

- ITEM NO.**
- 405 Windshield Washer:** Upper
- 410 Window Wiper:** Roof
- 415 Upper Heater & Defroster:** Diesel
- 420 Upper Heater & Defroster:** Propane w/out tank.
- 435 Vandalism Kit:** Lexan Glass
- 440 Tinted Glass**
- 455 Rotating Beacon:** Amber, on roof of cab
- 460 Floodlight:** (1), includes standard alternator
- 510 Tires:** 16:00 R 22.5 18 ply front (4)
12:00 x 20 16 ply rear (8)
- 550 Spare Wheel & Tire:** 15:00 R 22.5 18 ply - front
- 555 Spare Wheel & Tire:** 11:00 x 20 14 ply - rear
- 560 Spare Wheel & Tire:** 16:00 R 22.5 18 ply - front
- 565 Spare Wheel & Tire:** 12:00 x 20 16 ply - rear
- 625 Pintle Hook:** front or rear
- 635 Cold Weather Starting Aid**
- 645 Tire Inflation Kit**

Operational Aids

- 720 P.A.T. load moment operational aid DS350 microprocessor system -** includes load moment device w/ audio-visual warning, rated load, actual load, tare, radius, angle, length and height of boom tip indicators. Includes control lever lockouts (magnetic valve shut-off devices).
- 730 Krueger (HLAP) boom angle, length, radius indicators with angle preset and audio-visual warning.**
- 745 Krueger load moment system (Mark III).** Includes load moment device w/ audio-visual warning, radius, angle, length w/ angle preset.

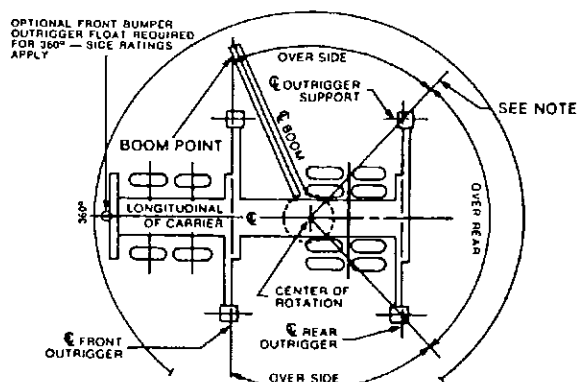
END OPTIONAL EQUIPMENT



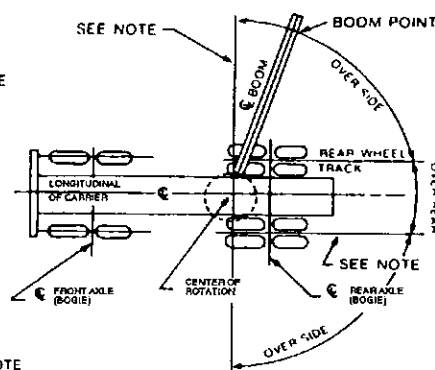
Axle Loadings						
	POUNDS			KILOGRAMS		
	GROSS	FRONT	REAR	GROSS	FRONT	REAR
BASIC CARRIER	33457	15009	18448	15176	6808	8368
BASIC UPPER	5441	448	4993	2468	203	2265
STANDARD EQUIPMENT						
110 FT. 4-SECT. BOOM	17555	13140	4415	7963	5960	2003
BOOM HOIST CYLINDERS	2063	1041	1023	936	472	464
8000 LB. COUNTERWEIGHT	8016	-3226	11241	3636	-1463	5099
MAIN WINCH - MODEL 1580	1080	-301	1381	490	-136	626
MAIN WINCH WIRE ROPE .75" X 515	536	-149	685	243	-68	311
AUX. WINCH OR 1080 LB. COUNTERWEIGHT	1080	-437	1518	490	-198	688
DETROIT DIESEL 6L 71TA ENGINE	4288	4299	-11	1945	1950	-5
FRONT TIRES & RIMS-(4) 15:00R22.5 18 PR	1237	1237	0	561	561	0
REAR TIRES & RIMS-(8) 11:00X20 14 PR	2037	0	2037	924	0	924
MULTI-POSITION SWING LOCK	33	7	26	15	3	12
HYDRAULIC FRONT STABILIZER	465	671	-206	211	304	-93
BASIC MACHINE	77288	31739	45550	35058	14396	20662
ADJUSTMENTS FOR OPTIONS:						
BASIC MACHINE:						
REMOVABLE 7525 LB. CWT. INSERT	-7525	3048	-10573	787	1382	-4796
FRONT TIRES & RIMS - (4) 16:00R22.5 18PR	103	103	0	47	47	0
REAR TIRES & RIMS- (8) 12:00X20 16 PR	170	0	170	77	0	77
MULTI POSITION SWING LOCK	33	7	26	15	3	12
ADDITIONS FOR OPTIONS:						
ATTACHMENTS:						
35 FT. BOOM EXTENSION	1735	1353	382	787	614	173
35 FT. - 60 FT. BOOM EXTENSION	2899	2150	750	1315	975	340
BOOM EXTENSION OFFSET INST.	201	331	-131	91	150	-59
AUX. BOOM POINT SHEAVE	152	167	-115	69	121	-52
45 TON HOOK BLOCK - AT FRNT. TOW HOOK	899	1429	-529	408	648	-240
50 TON HOOK BLOCK - AT FRNT. TOW HOOK	946	1502	-557	429	681	-252
20 TON HOOK BLOCK - ON REAR DECK	580	-184	764	263	-83	346
8.5 TON BALL HOOK - ON REAR DECK	265	-84	348	120	-38	158
AUX. WINCH ROPE .75" X 460'	487	-197	685	221	-89	310
UPPER:						
AUX. WINCH PLUMBING & CONTROLS	82	-12	94	37	-6	43
DIESEL HEATER	53	-1	54	24	0	24
PROPANE HEATER	55	-1	56	25	0	25
PROPANE TANK - FULL	49	-2	51	22	-1	23
FLOODLIGHTS	35	21	15	16	9	7
CARRIER:						
PINTLE HOOK	26	-10	37	12	-5	17
AIR DRYER	37	19	18	17	9	8

Area of Operations

ON OUTRIGGERS



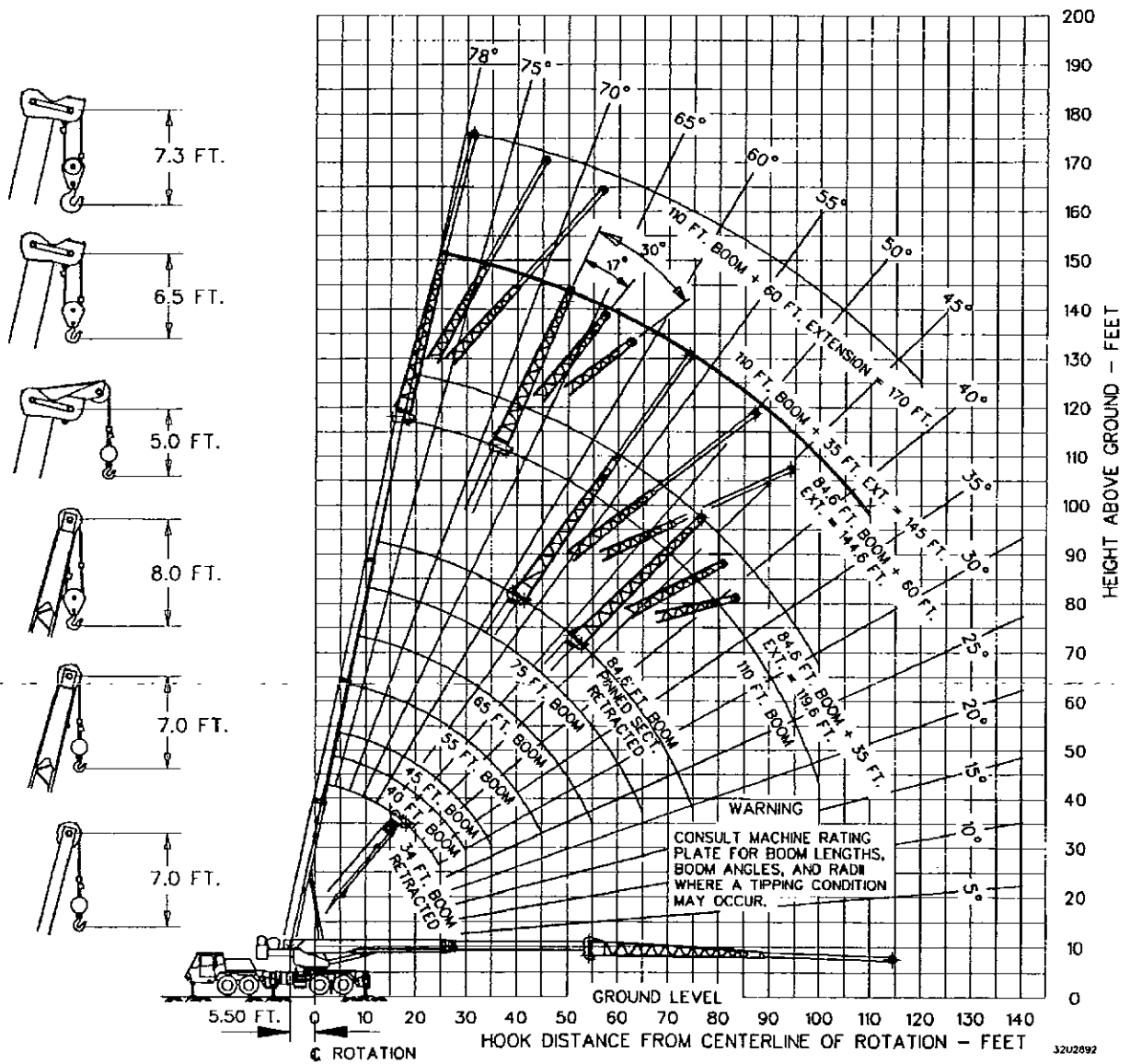
ON RUBBER



NOTE

THESE LINES DETERMINE ANY LIMITING POSITION OF ANY LOAD FOR OPERATION WITHIN WORKING AREAS INDICATED

CHART 1



Crane Range Diagram



Load Ratings - on Outriggers - with 8000 lbs. Counterweight PCSA Class 10-208

RATED LOADS IN POUNDS ON OUTRIGGERS

POWERED BOOM LENGTH IN FEET - MANUAL RETRACTED

BOOM ANGLE
DEGREES

	34 FT.		40 FT.		45 FT.		55 FT.		65 FT.		75 FT.		84.66 FT.				
	LOADED BOOM ANGLE DEGREES	RATED LOAD POUNDS	LOADED BOOM ANGLE DEGREES	RATED LOAD POUNDS	LOADED BOOM ANGLE DEGREES	RATED LOAD POUNDS	LOADED BOOM ANGLE DEGREES	RATED LOAD POUNDS	LOADED BOOM ANGLE DEGREES	RATED LOAD POUNDS	LOADED BOOM ANGLE DEGREES	RATED LOAD POUNDS	LOADED BOOM ANGLE DEGREES	RATED LOAD POUNDS			
	SIDE	REAR	SIDE	REAR	SIDE	REAR	SIDE	REAR	SIDE	REAR	SIDE	REAR	SIDE	REAR			
10	68	100000	70	82000	72	81000	76	75000	77	60000					10		
12	62	86000	67	81500	70	76500	74	69000	77	60000					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	38900	75	34700	20		
25	29	42000	43	42000	50	41900	59	41700	65	40800	69	34400	72	29900	25		
30			30	33700	40	33600	52	33500	59	33400	65	30000	68	26100	30		
35					28	27100	27100	45	27100	27100	54	27100	27100	60	26400	35	
40							37	20800	21200	48	20800	21200	55	20800	21200	40	
45							26	16100	16800	41	16100	16800	50	16100	16800	45	
50										34	13000	13700	45	13000	13700	50	
55										24	10500	11300	39	10500	11300	55	
60													32	8400	9200	60	
65													22	6900	7600	65	
70														29	5800	6300	70
75														20	4500	5200	75
80																80	
85																85	

BOOM ANGLE
DEGREES

CHART
2

CHART
3

LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED															
PINNED SECTION EXTENDED				LATTICE EXTENSION WITH PINNED SECTION RETRACTED				LATTICE EXTENSION WITH PINNED SECTION EXTENDED				LATTICE EXTENSION WITH PINNED SECTION EXTENDED			
FOR ALL BOOM LENGTHS 39.34 TO 110 FT.				FOR ALL BOOM LENGTHS 69 TO 108.66 FT.				FOR ALL BOOM LENGTHS 84 TO 144.66 FT.				FOR ALL BOOM LENGTHS 94.34 TO 145 FT.			
BOOM ANGLE DEGREES	SIDE	REAR	BOOM ANGLE DEGREES	SIDE	REAR	BOOM ANGLE DEGREES	SIDE	REAR	BOOM ANGLE DEGREES	SIDE	REAR	BOOM ANGLE DEGREES	SIDE	REAR	BOOM ANGLE DEGREES
25	77	21500	25	78	17000	25	78	16400	25			25			25
30	74	19600	30	76	15600	30	78	15100	30			30			30
35	72	17800	35	73	14500	35	73	13900	35	78	7100	35	78	11900	35
40	69	16100	40	71	13500	40	71	12900	40	74	5600	40	75	10900	40
45	66	14700	45	68	12600	45	68	12000	45	72	5300	45	73	10100	45
50	63	13400	50	66	11800	50	66	11200	50	70	6100	50	71	9300	50
55	60	12200	55	63	11100	55	63	10400	55	68	5700	55	69	8500	55
60	57	10000	60	60	10400	60	60	9800	60	66	5500	60	67	7900	60
65	53	8500	65	57	8900	65	57	8100	65	64	5400	65	65	7300	65
70	50	7200	70	54	7600	70	54	6800	70	62	5200	70	63	6800	70
75	48	6100	75	51	6400	75	51	5700	75	60	5100	75	60	6300	75
80	42	5100	80	48	5500	80	48	4700	80	57	4900	80	58	5900	80
85	38	4300	85	44	4600	85	44	3900	85	55	4600	85	56	5200	85
90	33	3600	90	40	3900	90	40	3100	90	52	4400	90	53	4400	90
95	29	2400	95	32	2700	95	32	1900	95	47	3200	95	47	3200	95
100			100			100			100	41	2200	100	41	2200	100
110			110	19	2200	110			110			110			110
120			120			120	34	1800	120	34	1900	120			120

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

WARNING:
A TIPPING CONDITION WILL OCCUR (WITH OR WITHOUT HOOK BLOCK) WITH 35 FT. OR 60 FT. BOOM EXTENSION ERECTED, IF MAXIMUM OPERATING RADIUS SHOWN WITH LOAD RATING FOR RESPECTIVE OPERATING CONFIGURATION IS EXCEEDED.

CHART
4

DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS					
DESCRIPTION		WITHOUT HOOK BLOCK ON BOOM POINT	HOOK BLOCK ON POWERED BOOM POINT		
			8.5 - 20 TON	45 - 50 TON	45 - 50 TON WITH AUXILIARY SHEAVE
HOISTING LOAD FROM POWERED BOOM	HOOK BLOCK WEIGHT		580	950	1100
	STOWED		700	1100	850
	ERECTED ONLY		3550	3900	3700
	8.5 TON BALL		4700	5050	4850
HOISTING LOAD FROM EXTENSION	20 TON BLOCK		6000	6350	6150
	STOWED		700	1050	850
	ERECTED ONLY		5500	5850	5650
	8.5 TON BALL		6650	7000	6800
HOISTING LOAD FROM EXTENSION	20 TON BLOCK		7950	8350	8100
	STOWED		5500	5850	5650
	ERECTED ONLY		7100	7450	7250
	8.5 TON BALL		8900	9250	9050
HOISTING LOAD FROM EXTENSION	20 TON BLOCK		270	650	850
	STOWED		580	950	1150
	ERECTED ONLY		270	650	900
	8.5 TON BALL		580	950	1200
HOISTING LOAD FROM EXTENSION	20 TON BLOCK		270	650	850
	STOWED		580	950	1100
	ERECTED ONLY		270	650	900
	8.5 TON BALL		580	950	1000

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

CHART
5

MAIN HOIST REEVING										
.75" WIRE ROPE BREAKING STRENGTH 58,800 LBS. 6 x 25 FW IWRC										
PARTS OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD	11000	22000	33000	44000	55000	66000	77000	88000	99000	100000
AUXILIARY HOIST REEVING										
.75" WIRE ROPE BREAKING STRENGTH 51,800 LBS. 8 x 19 SPIN RESISTANT										
PARTS OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD	10000	10000	30000	40000	50000	60000	70000	80000	90000	100000

Definitions:

- Operating radius is the horizontal distance from the axis of rotation before loading to the center of the vertical hoist line or tackle with load applied.
- Loaded boom angle, as shown in the column headed by , is the included angle between the horizontal and the longitudinal axes of the boom base after lifting rated load at rated radius.

CHART 6

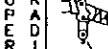
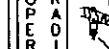
**Load Ratings - on Outriggers - 8000 lbs Counterweight
Offset Lattice Extension**

LOAD RATINGS IN POUNDS FOR 17° OFFSET WITH OUTRIGGERS EXTENDED

[illegible]

CHART 7

LOAD RATINGS IN POUNDS FOR 30° OFFSET WITH OUTRIGGERS EXTENDED

LATTICE EXTENSION WITH PINNED SECTION RETRACTED												
35 FT.			35 FT. TELESCOPIC			60 FT. TELESCOPIC			35 FT.			
OPERATING HEIGHT			OPERATING HEIGHT			OPERATING HEIGHT			OPERATING HEIGHT			
	SEE DEDUCTIONS			SEE DEDUCTIONS			SEE DEDUCTIONS					
	FOR ALL BOOM LENGTHS 89 TO 119.6 FT.			FOR ALL BOOM LENGTHS 89 TO 119.6 FT.			FOR ALL BOOM LENGTHS 94 TO 144.6 FT.					
	FOR 115 FOOT BOOM ONLY	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	FOR 115 FOOT BOOM ONLY	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	FOR 144.6 FOOT BOOM ONLY	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	FOR 145 FOOT BOOM ONLY	LOADED BOOM ANGLE	
	△°	SIDE REAR		△°	SIDE REAR		△°	SIDE REAR		△°		
35			35			35			35			
40	78	8900	40	78	8300	40			40			
45	75	8500	45	75	7900	45			45			
50	72	8200	50	72	7600	50			50	77		
55	70	8000	55	70	7400	55			55	75		
60	67	7700	60	67	7100	60	76	4200	60	73		
65	64	7500	65	64	6900	65	74	4000	65	71		
70	61	7300	70	61	6700	70	72	3800	70	68		
75	57	7200	75	58	6600	75	69	3700	75	66		
80	54	6300 5900	80	54	5600 6200	80	67	3600	80	63		
85	50	5400 5900	85	50	4600 5200	85	64	3500	85	61		
90	46	4500 5100	90	46	3800 4300	90	62	3400	90	58		
100	36	3100 3600	100	36	2300 2800	100	56	3200	100	52		
110	19	1800 2300				110	49	3000	110	46		
						120	41	2000 2400	120	38		

- NOTES:**
1. SEE MAIN LOAD RATING CHART ON OUTRIGGERS FOR WARNINGS, DEFINITIONS, INFORMATION AND REEVING.
 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. 8000 LB. STANDARD COUNTERWEIGHT OR 8000 LB. OPTIONAL CWT. INCLUDING 7525 LB. REMOVABLE WT.

WARNINGS:

A TIPPING CONDITION WILL OCCUR (WITH OR WITHOUT HOOK BLOCK) WITH 35 FT. OR 60 FT. BOOM EXTENSION ERECTED, IF MAXIMUM OPERATING RADIUS SHOWN WITH LOAD RATING FOR RESPECTIVE OPERATING CONFIGURATION IS EXCEEDED.



Load Ratings - on Outriggers - PCSA Class 10-156

8000 lbs. Counterweight with 7525 lb. Insert Removed

OPERATING

RATED LOADS IN POUNDS ON OUTRIGGERS

POWERED BOOM LENGTH IN FEET — MANUAL RETRACTED

LOADED BOOM ANGLE X°	34 FT.		LOADED BOOM ANGLE X°	40 FT.		LOADED BOOM ANGLE X°	45 FT.		LOADED BOOM ANGLE X°	55 FT.		LOADED BOOM ANGLE X°	65 FT.		LOADED BOOM ANGLE X°	75 FT.		LOADED BOOM ANGLE X°	84.66 FT.			
	RATED LOAD POUNDS			RATED LOAD POUNDS			RATED LOAD POUNDS			RATED LOAD POUNDS			RATED LOAD POUNDS			RATED LOAD POUNDS			RATED LOAD POUNDS		RATED LOAD POUNDS	
	SIDE	REAR		SIDE	REAR		SIDE	REAR		SIDE	REAR		SIDE	REAR		SIDE	REAR		SIDE	REAR	SIDE	REAR
10	66	100000	70	82000	72	81000	76	71500														
12	62	52700	67	81500	70	78500	74	66500	77	57000												
15	58	55500	62	85500	65	85400	71	59000	74	51000	77	45000										
20	44	50000	53	49800	58	49700	65	49600	66	45000	73	39300	75	34700								
25	29	38800	43	38900	50	38800	59	38600	65	38500	68	34400	72	29900								
30			30	28600	29100	40	28600	29100	52	28600	29100	59	28800	29100	64	28600	29100	68	26100			
36						28	20700	21800	46	20700	21800	54	20700	21800	60	20700	21800	64	20700			
40									36	15800	16800	48	15800	16800	55	15800	16800	60	15800			
45									28	11800	13100	41	11800	13100	50	11800	13100	56	11800			
50												34	9200	10500	45	9200	10500	52	9200			
55												24	7200	8400	38	7200	8400	47	7200			
60															31	5500	6800	42	5500			
65															22	4200	5300	36	4200			
70																		29	3200			
75																		20	2300			
80																						
85																						

OPERATING

CHART
8

CHART
9

LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED

PINNED SECTION EXTENDED

FOR ALL BOOM LENGTHS 59.34 TO 110 FT.

FOR 110 FOOT BOOM ONLY	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	
	°	SIDE	REAR
25	77	21500	
30	74	19600	
35	72	17800	
40	69	16100	
45	66	13800	14800
50	63	10900	12100
55	60	8800	10000
60	58	7100	8200
65	53	5800	6600
70	49	4700	5700
75	46	3800	4800
80	42	3000	4000
85	37	2400	3200
90	32	1800	2600

LATTICE EXTENSION WITH PINNED SECTION RETRACTED

FOR ALL BOOM LENGTHS 59 TO 119.66 FT.

FOR 110 FOOT BOOM ONLY	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	
	°	SIDE	REAR
25	78	17000	
30	76	15600	
35	73	14500	
40	71	13500	
45	68	12800	
50	66	11300	11600
55	63	9200	10300
60	60	7600	8600
65	57	6200	7200
70	54	5100	6100
75	51	4200	5100
80	47	3400	4300
85	44	2700	3500
90	40	2100	2900
100	31	-	1800

FOR ALL BOOM LENGTHS 59 TO 119.66 FT.

FOR 110 FOOT BOOM ONLY	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	
	°	SIDE	REAR
25	78	16400	
30	76	15100	
35	73	13900	
40	71	12900	
45	68	12000	
50	66	10600	11200
55	63	8500	9500
60	60	6800	7800
65	57	5500	6400
70	54	4400	5300
75	51	3400	4300
80	47	2600	3500
85	44	1900	2700
90	40	-	2100

FOR ALL BOOM LENGTHS 94 TO 144.66 FT.

FOR 110 FOOT BOOM ONLY	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	
	°	SIDE	REAR
25			
30	76	73000	
35	76	7100	
40	74	6800	
45	72	6300	
50	70	6100	
55	68	5700	
60	66	5500	
65	64	5400	
70	62	5200	
75	60	4800	5100
80	57	3900	4700
85	55	3200	4000
90	52	2600	3300
100	47	-	2300

LATTICE EXTENSION WITH PINNED SECTION EXTENDED

FOR ALL BOOM LENGTHS 94.34 TO 145 FT.

FOR 115 FOOT BOOM ONLY	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	
	°	SIDE	REAR
25			
30			
35	77	12000	
40	75	10900	
45	73	10100	
50	71	9300	
55	68	8500	
60	67	7800	
65	66	6800	7300
70	63	5700	6800
75	60	4700	5800
80	58	3800	4800
85	55	3200	4000
90	52	2600	3400
100	47	-	2300

FOR ALL BOOM LENGTHS 94.34 TO 145 FT.

FOR 115 FOOT BOOM ONLY	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	
	°	SIDE	REAR
25			
30			
35	78	11900	
40	78	10700	
45	74	9900	
50	72	9100	
55	70	8300	
60	67	7300	7700
65	65	6000	6900
70	63	4900	5800
75	60	3800	4800
80	58	3100	3900
85	55	2400	3200
90	52	1800	2600

FOR ALL BOOM LENGTHS 119.34 TO 170 FT.

FOR 117 FOOT BOOM ONLY	LOADED BOOM ANGLE	RATED LOAD IN POUNDS	
	°	SIDE	REAR
25			
30			
35			
40	78	6700	
45	77	6600	
50	75	6200	
55	73	5800	
60	72	5700	
65	70	5600	
70	68	5400	
75	66	5000	
80	66	4300	4700
85	63	3600	4300
90	61	3000	3700
100	56	2000	2600
110	52	-	1800

NOTE:

1. WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES, NOT OPERATING RADIUS TO DETERMINE LOAD RATING.
2. FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.
3. FOR BUCKET RATINGS ON 80 FT. EXTENSION, DEDUCT 20% FROM LOAD RATINGS.

WARNING:

A TIPPING CONDITION WILL OCCUR (WITH OR WITHOUT A HOOK BLOCK) WITH BOOM PINNED SECTION EXTENDED, OR WITH THE 35 FT. OR 80 FT. BOOM EXTENSION ERECTED, IF MAXIMUM OPERATING RADIUS SHOWN WITH LOAD RATING FOR RESPECTIVE DEPRATING CONFIGURATION IS EXCEEDED.

NOTE:

- WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES, NOT OPERATING RADIUS TO DETERMINE LOAD RATINGS.
- FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.
- FOR BOOM RATINGS ON 80 FT. EXTENSION, DEDUCT 20% FROM LOAD RATINGS.

WARNING:

A TIPPING CONDITION WILL OCCUR (WITH OR WITHOUT A HOOK BLOCK) WITH BOOM PINNED SECTION EXTENDED, OR WITH THE 35 FT. OR 60 FT. BOOM EXTENSION ERECTED, IF MAXIMUM OPERATING RADIUS SHOWN WITH LOAD RATING FOR RESPECTIVE OPERATING CONFIGURATION IS EXCEEDED.

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 INCH FROM THE LONGITUDINAL AXIS OF THE CARRIER TO THE OUTRIGGER FLOAT PIVOT CONNECTION WITH ALL LOAD REMOVED FROM CARRIER WHEELS.

WARNINGS:

- 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.
- POSITIONING OR OPERATION OF POWERED BOOM LENGTHS AT RADII BEYOND THE MAXIMUMS OR MINIMUMS SHOWN, IS NOT INTENDED OR APPROVED.
- POSITIONING OR OPERATION OF LATTICE EXTENSIONS AT BOOM ANGLES BEYOND THE MAXIMUMS OR MINIMUMS SHOWN, IS NOT INTENDED OR APPROVED.
- FOR POWERED BOOM LENGTHS NOT SHOWN, USE RATING OF NEXT LONGER POWERED BOOM. FOR LOAD RADII NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.
- CRANE LOAD RATINGS ON OUTRIGGERS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELED AND STANDING ON A FIRM UNIFORM SUPPORTING SURFACE. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND IN ANY DIRECTION.
- 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.
- 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.
- WHEN LIFTING A LOAD ALL SECTIONS OF POWERED BOOM MUST BE EQUALLY EXTENDED WITHIN ONE FOOT.

NOTES:

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 - on Outriggers - Offset Lattice Extension

CHART
10

8000 lbs. Counterweight with 7525 lb. Insert Removed

LOAD RATINGS IN POUNDS FOR 17° OFFSET WITH OUTRIGGERS EXTENDED											
LATTICE EXTENSION WITH PINNED SECTION RETRACTED						LATTICE EXTENSION WITH PINNED SECTION EXTENDED					
OPERATING RADIUS IN FEET	35 FT. LATTICE EXTENSION WITH PINNED SECTION RETRACTED	35 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION RETRACTED	60 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION RETRACTED	OPERATING RADIUS IN FEET	35 FT. LATTICE EXTENSION WITH PINNED SECTION EXTENDED	35 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION EXTENDED	60 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION EXTENDED	OPERATING RADIUS IN FEET	35 FT. LATTICE EXTENSION WITH PINNED SECTION EXTENDED	35 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION EXTENDED	60 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION EXTENDED
FOR ALL BOOM LENGTHS 69 TO 119.6 FT.	FOR ALL BOOM LENGTHS 69 TO 119.6 FT.	FOR ALL BOOM LENGTHS 69 TO 119.6 FT.	FOR ALL BOOM LENGTHS 94 TO 144.6 FT.	FOR ALL BOOM LENGTHS 69 TO 119.6 FT.	FOR ALL BOOM LENGTHS 94.3 TO 145 FT.	FOR ALL BOOM LENGTHS 94.3 TO 145 FT.	FOR ALL BOOM LENGTHS 119.3 TO 170 FT.	FOR ALL BOOM LENGTHS 69 TO 119.6 FT.	FOR ALL BOOM LENGTHS 94.3 TO 145 FT.	FOR ALL BOOM LENGTHS 94.3 TO 145 FT.	FOR ALL BOOM LENGTHS 119.3 TO 170 FT.
FOR 119.6 FOOT BOOM ONLY	LOADED BOOM ANGLE °	RATED LOAD IN POUNDS	RATED LOAD IN POUNDS	FOR 144.6 FOOT BOOM ONLY	LOADED BOOM ANGLE °	RATED LOAD IN POUNDS	RATED LOAD IN POUNDS	FOR 145 FOOT BOOM ONLY	LOADED BOOM ANGLE °	RATED LOAD IN POUNDS	RATED LOAD IN POUNDS
		SIDE	REAR			SIDE	REAR			SIDE	REAR
35	77	11100		35	77	10400		35	77	9700	
40	74	10400		40	75	9900		40	75	9000	
45	72	9900		45	72	9300		45	72	8300	
50	69	9500		50	69	8900		50	75	8300	
55	67	9100		55	67	8500		55	73	7600	
60	64	8400	8700	60	64	7700	8100	60	71	7000	5200
65	61	7000	8000	65	61	6300	7200	65	68	6500	5000
70	58	5800	6700	70	58	5100	6000	70	66	5600	4600
75	55	4800	5700	75	55	4000	4900	75	64	4600	4400
80	51	3900	4700	80	51	3100	4000	80	61	3700	4100
85	48	3100	3900	85	48	2400	3200	85	58	2900	3700
90	44	2500	3200	90	44	-	2500	90	56	3200	3000
100	35	-	2100	100	52	2200	2800	100	50	-	1900
				110	46	-	1800	110	56	-	2100

CHART 11

LOAD RATINGS IN POUNDS FOR 30° OFFSET WITH OUTRIGGERS EXTENDED											
LATTICE EXTENSION WITH PINNED SECTION RETRACTED						LATTICE EXTENSION WITH PINNED SECTION EXTENDED					
OPERATING RADIUS IN FEET	35 FT. LATTICE EXTENSION WITH PINNED SECTION RETRACTED	35 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION RETRACTED	60 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION RETRACTED	OPERATING RADIUS IN FEET	35 FT. LATTICE EXTENSION WITH PINNED SECTION EXTENDED	35 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION EXTENDED	60 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION EXTENDED	OPERATING RADIUS IN FEET	35 FT. LATTICE EXTENSION WITH PINNED SECTION EXTENDED	35 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION EXTENDED	60 FT. TELESCOPIC LATTICE EXTENSION WITH PINNED SECTION EXTENDED
FOR ALL BOOM LENGTHS 69 TO 119.6 FT.	FOR ALL BOOM LENGTHS 69 TO 119.6 FT.	FOR ALL BOOM LENGTHS 69 TO 119.6 FT.	FOR ALL BOOM LENGTHS 94 TO 144.6 FT.	FOR ALL BOOM LENGTHS 69 TO 119.6 FT.	FOR ALL BOOM LENGTHS 94.3 TO 145 FT.	FOR ALL BOOM LENGTHS 94.3 TO 145 FT.	FOR ALL BOOM LENGTHS 119.3 TO 170 FT.	FOR ALL BOOM LENGTHS 69 TO 119.6 FT.	FOR ALL BOOM LENGTHS 94.3 TO 145 FT.	FOR ALL BOOM LENGTHS 94.3 TO 145 FT.	FOR ALL BOOM LENGTHS 119.3 TO 170 FT.
FOR 119.6 FOOT BOOM ONLY	LOADED BOOM ANGLE °	RATED LOAD IN POUNDS	RATED LOAD IN POUNDS	FOR 144.6 FOOT BOOM ONLY	LOADED BOOM ANGLE °	RATED LOAD IN POUNDS	RATED LOAD IN POUNDS	FOR 145 FOOT BOOM ONLY	LOADED BOOM ANGLE °	RATED LOAD IN POUNDS	RATED LOAD IN POUNDS
		SIDE	REAR			SIDE	REAR			SIDE	REAR
35	78	8900		35	78	8300		35	78	7400	
40	75	8500		40	75	7900		40	75	6900	
45	72	8200		45	72	7600		45	72	6400	
50	70	8000		50	70	7400		50	71	5900	
55	67	7700		55	67	7100		55	68	5500	
60	64	7500		60	64	6900		60	66	5000	4100
70	61	6300	7200	70	61	5600	6500	70	64	4600	3900
75	57	5200	6100	75	57	4500	5300	75	61	3300	3800
80	54	4300	5100	80	54	3500	4400	80	58	2600	3300
85	50	3400	4200	85	50	2700	3500	85	56	2100	2900
90	46	2700	3500	90	46	2000	2700	90	52	-	1900
100	36	-	2200	100	56	2600	3200	100	45	-	1900
				110	49	-	2200	110	59	1900	2500

- NOTES: 1. SEE MAIN LOAD RATING CHART ON OUTRIGGERS FOR WARNINGS, DEFINITIONS, INFORMATION AND REEVEING.
 2. FOR BOOM 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. 8000 LB. COUNTERWEIGHT WITH 7525 LB. WEIGHT REMOVED.

WARNINGS:

A TIPPING CONDITION WILL OCCUR (WITH OR WITHOUT A HOOK BLOCK) WITH 35 FT. OR 60 FT. BOOM EXTENSION ERECTED, IF MAXIMUM OPERATING RADIUS SHOWN WITH LOAD RATING RESPECTIVE OPERATING CONFIGURATION IS EXCEEDED



On Rubber Ratings

With 8000 lbs. Counterweight

**CHART
12**

LOAD RATINGS IN POUNDS					
OPERATING RADIUS F.T.	11.00 X 20-14 PR TIRES 12.00 X 20-16 PR TIRES				OPERATING RADIUS F.T.
	STATIONARY		TRAVEL RATINGS OVER REAR		
	OVER REAR	OVER SIDE	CREEP	2.5 MPH	
10	35200	25900	35200	28600	10
12	30500	22000	30500	25500	12
15	26100	15200	26100	22300	15
20	20900	8700	20900	17700	20
25	14800	5200	14800	14400	25
30	10700	3000			30
35	7900				35
40	5900				40
45	4300				45
50	3100				50

8000 lbs Counterweight
with 7525 lb. Insert Removed

**CHART
13**

LOAD RATINGS IN POUNDS					
OPERATING RADIUS F.T.	11.00 X 20-14 PR TIRES 12.00 X 20-16 PR TIRES				OPERATING RADIUS F.T.
	STATIONARY		TRAVEL RATINGS OVER REAR		
	OVER REAR	OVER SIDE			
			CREEP	2.5 MPH	
10	31200	20300	31200	26700	10
12	27200	14100	27200	23100	12
15	23500	8800	23500	19800	15
20	16500	4200	16500	15700	20
25	11100	1800	11100	11100	25
30	7700				30
35	5400				35
40	3700				40
45	2400				45
50	1400				50

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. THE LOAD MUST BE CENTERED OVER REAR OF MACHINE AND RESTRAINED FROM SWINGING. SEE AREAS OF OPERATION PLATE FOR WORKING RANGES.
3. LIFT LOADS WITH MINIMUM BOOM LENGTH; DO NOT EXCEED 65 FEET BOOM LENGTH WHEN LIFTING ON TIRES.
4. DO NOT ATTEMPT LIFTS ON TIRES WITH EXTENSION ERECTED.
5. MAXIMUM RECOMMENDED BOOM ANGLE ON TIRES IS 66° WITHOUT LOAD.

INFORMATION:

1. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED LATTICES EXTENSION, OPTIONAL ATTACHMENTS, HOOKS AND HOOKBLOCKS. (SEE DEDUCTION CHART). WEIGHTS OF SLINGS, AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
2. RATINGS ABOVE THE HEAVY LINE 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.

**CHART
14**

DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS				
DESCRIPTION	HOOK BLOCK ON POWERED BOOM POINT			
	8.5-20 TON	45-50 TON	8.5-20 TON WITH AUX SHEAVE	45-50 TON WITH AUX SHEAVE
HOOK BLOCK WEIGHT	580	950	740	1100
STOWED LATTICE EXT.	35 FT. BOOM EXTENSION	900	1300	1100
	60 FT. TELESCOPIC BOOM EXTENSION	1100	1450	1250
NOTE: LOAD DEDUCTIONS APPLY ONLY TO P&H SUPPLIED EQUIPMENT.				

DEFINITIONS:

1. CREEP IS MOTION FOR LESS THAN 200 FT. IN A 30 MINUTE PERIOD AND NOT EXCEEDING 1 M.P.H.

NOTES:

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.

**CHART
15**

TIRE INFLATION			
SIZE	STATIC PSI	CREEP PSI	2.5 MPH PSI
11.00X20-14 PR	110	110	110
12.00X20-16 PR	115	115	115
15.0RX22.5-18PR	130	130	130
16.5RX22.0-18PR	125	125	125



Dimensions

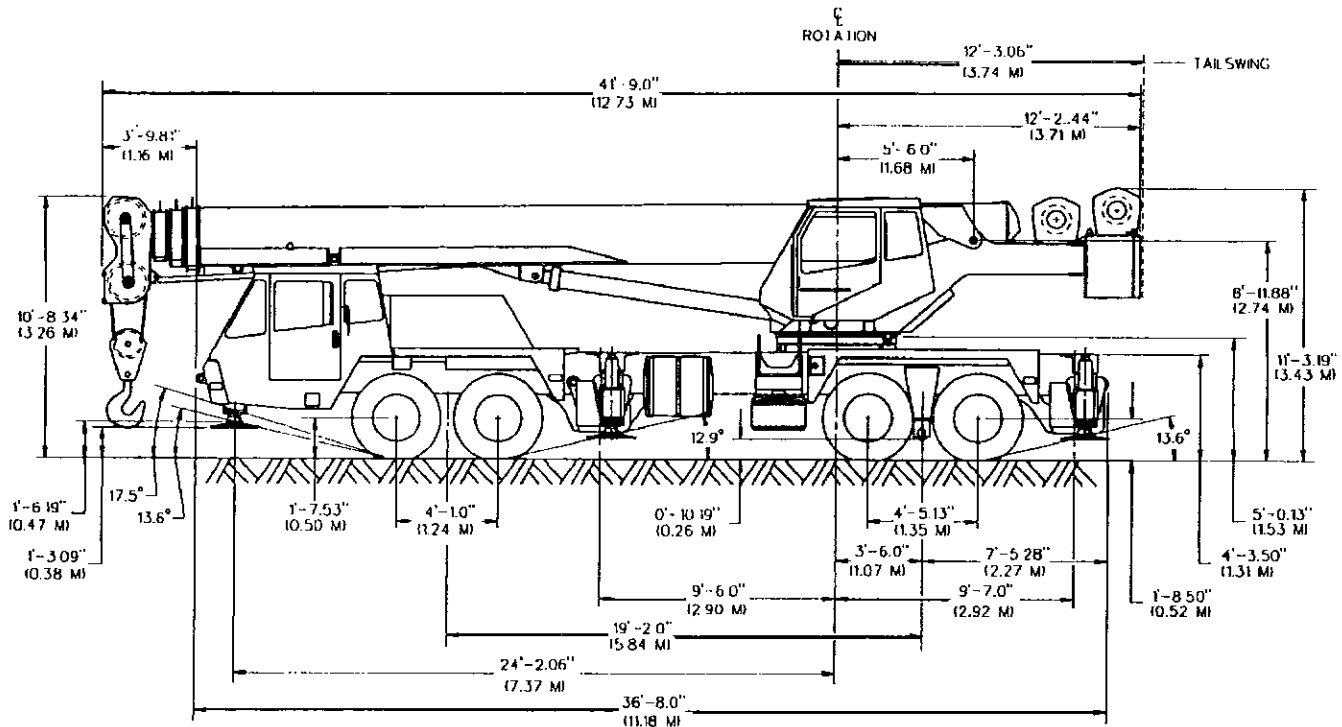
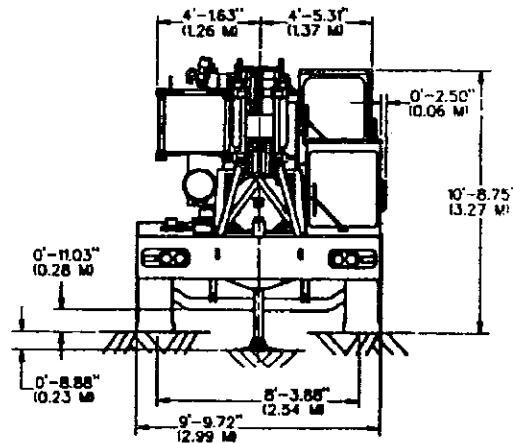
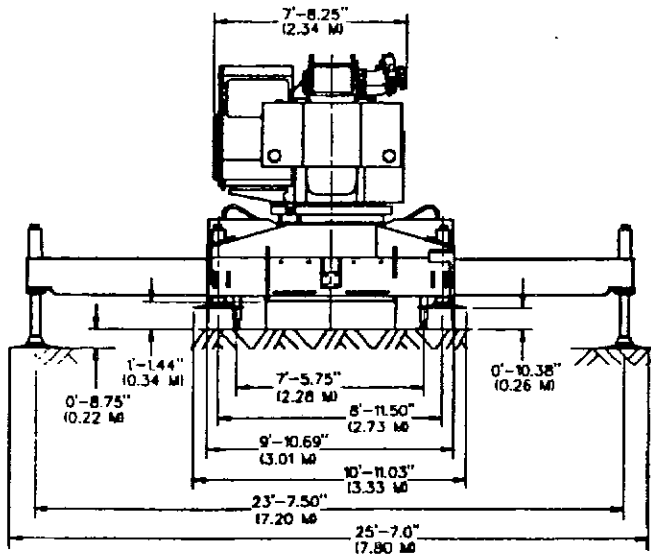
NOTE:

DIMENSIONS ARE WITH STANDARD FRONT TIRE SIZE: 15.00 R 22.5

AND STANDARD REAR TIRE SIZE: 11.00 X 20

WITH OPTION 16.50 R 22.5 FRONT TIRES - ADD 0.87" (22MM) TO HEIGHT DIMENSIONS

WITH OPTION 12.00 X 20 REAR TIRES - ADD 0.67" (17MM) TO HEIGHT DIMENSIONS



TIRES

	15.00 x 22.5	16.50 x 22.5
VEHICLE TURNING DIAMETER - TIRE CLEARANCE	85.86 FT. (26.17 M)	93.63 FT. (28.54 M)
VEHICLE CLEARANCE DIA. - TIRE CLEARANCE WITH CURB	87.11 FT. (26.55 M)	94.88 FT. (28.94 M)
CARRIER CLEARANCE	95.33 FT. (29.14 M)	102.80 FT. (31.33 M)
BOOM CLEARANCE	94.43 FT. (28.78 M)	101.93 FT. (30.76 M)
EXTENSION CLEARANCE	96.43 FT. (30.00 M)	103.28 FT. (32.09 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:



P.O. Box 260002
Conway, SC 29526-2602
USA