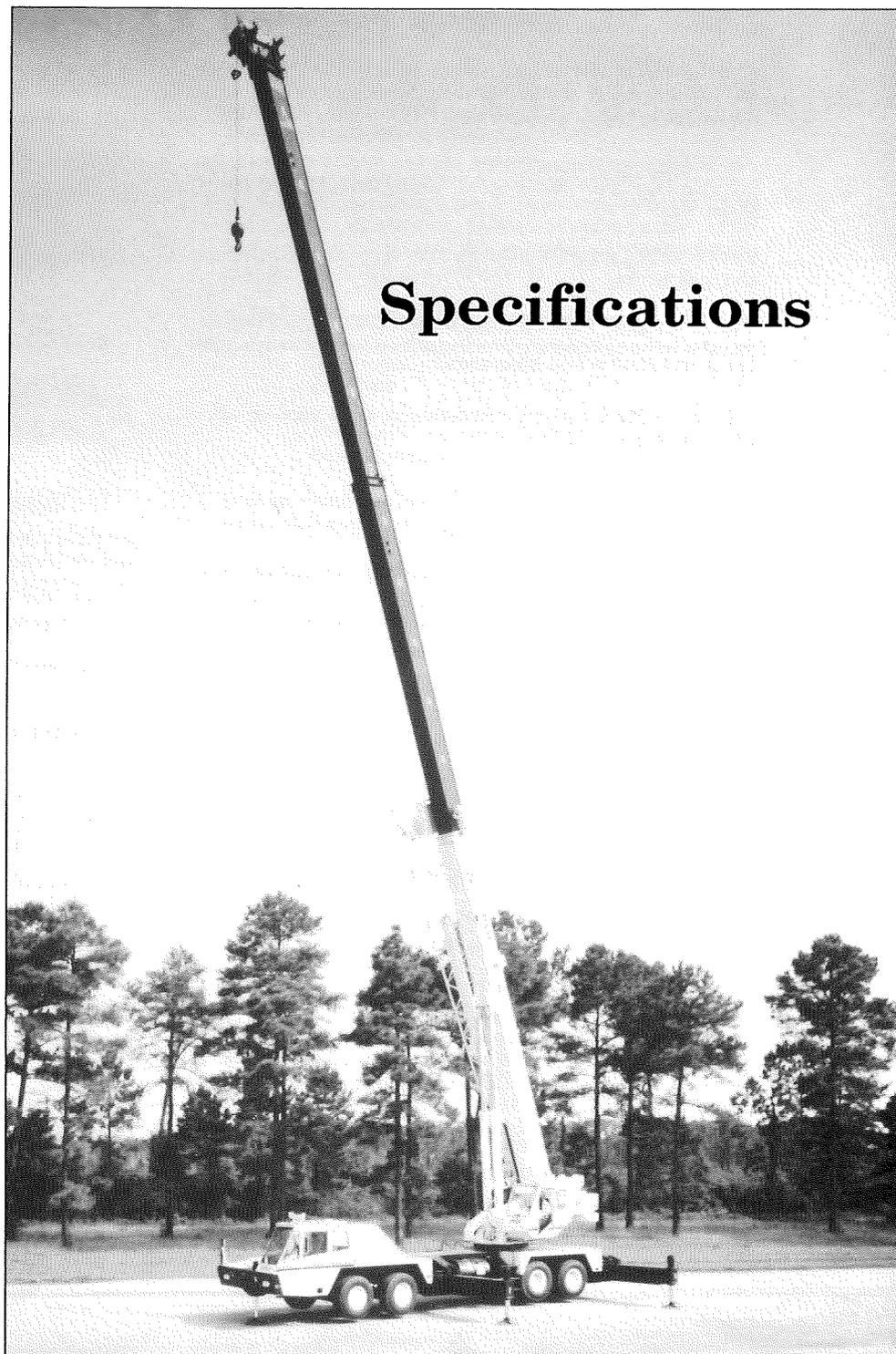


P&H[®] Century T-650

Hydraulic Truck Crane 65 Ton (60 tonnes) Capacity 186 Ft. (56.7m) Max. Boom and Extension

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- 40 to 60 ft. telescopic lattice extension offsets 17° or 30° for reaching over structures.
- Four plate boom is welded inside and out for extra strength. No derate for bucket work on main boom or 40 ft. extension.
- Pinned tip section of 4 section hydraulic boom extends and pins by remote control from operator's cab.
- Boom will telescope any rated load - an advantage when loads must be placed through openings in structures.
- P&H model 2080 main winch has two speeds, line pull to max. of 22, 410 pounds, line speeds to max. of 481 fpm.
- Powerful P&H carrier travels 51 mph on highway, climbs 36.9% grade off highway. Road-ranger transmission has 13 speeds forward, 2 reverse.
- Hydraulic outriggers spread to 23 ft. 7 inches; gives rock-solid stability for precise handling of 186 feet of boom and extension.
- Hydraulic, mechanical and electrical systems are extra rugged to take on the heaviest duty jobs with ease.
- Roomy, environmental operator's cab has deluxe operator's seat with joystick controls in arm rests, adjustable positioning, torsion bar suspension. Keeps operators fresh and productive all day long.



Specifications

ITEM NO. 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.

1 BASIC MACHINE

Attachment



Boom: 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 pinned section which can be hydraulically extended and retracted with pinning by hydraulic cylinders remotely controlled from the operator's cab. Boom point has five 17.75" (451mm) 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. 3, Crane Range Diagram, and Chart nos. 4 and 8, Lifting Capacities on 126 ft. Boom.

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

Counterweight: 8500 lbs. (3856kg) with 5897 lbs. (2675kg) removable with a self contained raising or lowering device using the winch.

1367 lbs. (620kg) auxiliary counterweight to be used on units without 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 pressure 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, machine level, brake warning indicator, check gauges indicator. Deluxe operator's seat with torsion suspension and fabric covering, and seat belt. Front window fan, windshield wiper and washer, and fire extinguisher.



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. Left hand joystick has warning horn.

Electrical System: 24 volt negative ground. Wiring Harnesses have protective covering and are independently clamped to the framework, and have environmentally sealed Deutsch connectors. engine speed drive ratio.

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

Side console has hand throttle control, swing lock control, electric outrigger panel and control switches, and indicators for automatic pinning system for four section boom.

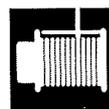
Operational Aids

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

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

Mechanical boom angle indicator also included.

Winches



Main Winch: P&H model 2080 with two speed, bent axial piston motor, mounted on rear of revolving frame. Planetary gearing and unequal 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: 17.375" (441mm) pitch diameter
22.81" (579mm) wide
27.75" (705mm) flange diameter

Wire Rope: .75" (19mm) dia. 6 x 37 extra improved plow steel with 7x7 IWRC. Strength limit: 16,800 lbs. (7,619 kg).

Drum Capacity: 778 ft. (237m) x .75" (19mm) dia., 5 layers.

Line Pull (max.): 22,410 lbs. (10165 kg) 1st layer, low speed.
16845 lbs. (7640 kg) 5th layer.

Available Line Pull (for starting loads in mid-air) (max.): 15,000 lbs. (6802 kg) 5th layer

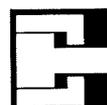
Line Speed (max.): (At engine no load high speed)
481 ft./min. (146 m/min.) 5th layer, high speed.

See Chart No. 2, Hoist Reeving, for rope capacities and parts of line required.

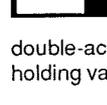
Auxiliary Winches: See Optional Equipment.

SHEAVE AND DRUM TO WIRE ROPE RATIOS: (Pitch Diameters)

	Sheave to Wire Rope	Drum to Wire Rope
Main Boom Sheaves .75" Wire Rope	24.66:1	-
Main & Aux. Winch Model 2080 .75" Wire Rope	-	23.16:1
Aux. Winch Model 1580 .75" Wire rope	-	20.1:1



Boom Hoist: Two 8.25" (210mm) I.D. cylinders, double-acting. Hydraulically powered raising and lowering with holding valve.



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

Hydraulic System

Pump Drive: Driven off carrier engine crankshaft, with manual pump disconnect for highway travel. 1.26 pump speed to 1.0 engine speed ratio.

Pumps: One tandem gear pump operating at full load rpm, the cover end section provides 51 gpm (193 l/m) to the boom hoist and telescope circuits, and the shaft end section provides 42 gpm (159 l/m) to the main and auxiliary winch circuits.

One tandem gear pump operating at full load rpm, the cover end section provides 35 gpm (132 l/m) to the swing circuit, and the shaft end section provides 26 gpm (98 l/m) to the outrigger and steer circuits or the winch boost.

Oil Reservoir: 177 gallons (670 liters) mounted between the tires on the left side of the carrier frame.

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

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 the main winch and one spool for the auxiliary winch circuits.

Filters: Two return line filters, 7 micron nominal, externally mounted to the hydraulic reservoir.

Swing System



Swing Unit: Hydraulic motor driving through gear reducer to pinion gear. Drive pinion supported with out-board 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 in cab. A manual foot pedal applies brake for static holding.

House Lock: 360 degree swing lock. Gear segment type.

Carrier



Type: P&H 8 x 4

Weight: Including ball bearing swing circle, hydraulic outriggers, standard tires and Detroit Diesel engine: 45,123 lbs. (20,468 kg).

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

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



Carrier 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 for travel, including adjustably illuminated instrument panel with speedometer, tachometer, hourmeter, voltmeter, air pressure gauges, low air pressure indicator lights, fuel gauge, oil pressure gauge, low oil pressure warning light, water temperature gauge, high water temperature warning light, hi-beam indicator, turn signal indicator lights, air horns, west coast rear view mirrors, electric windshield wiper, engine condition alarm, heater and defroster. Deluxe operator's seat with torsion suspension and fabric covering. Seat belt with tethers. Fire extinguisher.

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

Carrier Standard Equipment: Front bumper, full fenders, sliding engine hood, tow hooks front and rear, carrier mounted boom rack, side storage boxes, float storage racks, tool boxes, backup warning device, and hydraulically operated front stabilizer with 24" (610mm) diameter float.

Brakes, Service: Dual air circuits front and rear.

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

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

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

Front Axle: Steerable tubular tandem.

Rear Axle: Single reduction with inter-axle differential. Ratio 6.070:1.

Suspension: Front axle: Four spring mounted tandem with torque rods.

Rear axle: Solid bogie mounted tandem with torque rods.

Steering: Hydraulic powered gear and integral valve with a hydraulic power assist cylinder on each front axle.

Tires: Front - 425/65R 22.5 LRJ. Rear - 12.00 R 20 LRJ.

For crane ratings on tires see chart nos. 12, 13 and 14.



Power Plant:

Make:	Detroit Diesel 6V92TA DDEC
Max. HP:	350 HP (261 kw) @ 2100 rpm
Max Torque:	1020 lb. ft. (1387 Nm) @ 1200 rpm
Cylinders:	Six: 4.85" (123 mm) bore x 5.00" (127mm) stroke.
Displacement:	552 cu. in. (9.05 liter)
Cycle:	Two

(Power Plant Cont. next page)

(Power Plant cont.)

Alternator: Delco 24 volt, 65 amp.
Aspiration: Turbocharged and after-cooled.
Air Compressor: 12 CFM (340 Liters/min.) @1250 rpm

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

Air Cleaner: Donaldson FHG 16-0049 two stage primary dry air cleaner with "Duralife" filter media and restriction indicator.

Muffler: Resonator and muffler.

Fuel Tank: DOT approved steel tank of 100 gal. (378 liters) mounted on right side of carrier, behind front outriggers.

Electrical: 24 volt system with negative ground. Two 8D batteries with a reserve capacity of 442 min. and CCA at 0° of 970 amps. Harnesses have environmentally sealed Deutsch connectors. Switches used in operator's cab are environmentally sealed, rocker type.



Transmission: Eaton Corp. Fuller Roadranger, RTO-11613, 13 speeds forward, 2 reverse.

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



Performance:

GVW: 96,000 lbs. (43546kg)
Tires: 425/65 R 22.5 front, 12.00 R 20 Rear
Counterweight: 8500 lbs. (3856kg)
Low Gear: 2.0 mph (3.3 Km/h) @ 36.9% Grade
High Gear: 51.4 mph (82.8 km/h) @ .4% grade

ITEM NO.

Options and Accessories

125 **Lattice Extension:** 40 ft. (12.2m)(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:** 40 ft. to 60 ft. (12.2m to 18.3m) (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. 3: Crane Range Diagram, and Chart nos. 5, 6 and 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.

160 **Auxiliary Boom Point Sheave:** Boom point mounted with single metallic sheave, includes anti-two block material.

205 **Auxiliary Winch:** P&H model 1580 with two speed motor, mounted to rear of revolving frame on the counterweight. 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 turn indicator.

Drum: 15" (381 mm) P.D.
18.5" (470 mm) wide
23.50" (597 mm) dia. flange.
Drum Capacity: 554 ft. (169m) x .75" (19mm), 5 layers.
Line Pull (max.): 17,240 lbs. (7820 kg) 1st layer low speed,
12,469 lbs. (5656 kg) 5th layer.
Maximum Available Line Pull for Starting Load in Mid Air:
11,000 lbs. (4991 kg), 5th layer.
Line Speed: 643 fpm (196 m/m), 5th layer, high speed
(At engine no load high speed).

220 **Wire Rope For Aux. Winch:** Same as Main Winch

225 **Wire Rope for Auxiliary Winch:** .75" x 550', 8 x 19 spin resistant

235 **Hook Block:** 65 ton, 5 sheaves

240 **Hook Block:** 20 ton, 1 sheave

245 **Weighted Jib Hook:** 8.5 ton, with swivel

ITEM NO.

260 **Cable Spooling Device:** Main or auxiliary winch drum.

270 **Pilot Operated Lever Controls:** In lieu of joysticks

410 **Window Wiper:** Roof

415 **Heater & Defroster:** Diesel.

420 **Heater & Defroster:** Propane w/out tank.

435 **Vandalism Kit:** Lexan Glass.

440 **Tinted Glass**

455 **Rotating Beacon:** Amber, on roof of cab.

505 **Tires:** 14:00 R 20 18 ply Front and rear.

For performance characteristics, see chart nos. 12, 13 and 14.

550 **Spare Wheel & Tire:** 425/65R 22.5 LR-J front tire.

555 **Spare Wheel & Tire:** 12:00 R 20 LR-J rear tire.

560 **Spare Wheel & Tire:** 14:00 R 20 LR-J front or rear tire.

625 **Pintle Hook:** Rear

635 **Cold Weather Starting Aid**

645 **Tire Inflation Kit**

ITEM NO. **Operational Aids**

735 **Krueger (HLAP) boom angle, length, radius indicators with angle preset and audio-visual warning.**

745 **Krueger load moment system (Mark IIIe).** Includes load moment device w/ audio-visual warning, radius, angle, length w/ angle preset. Includes Control Lever Lockouts.

END OPTIONS AND ACCESSORIES

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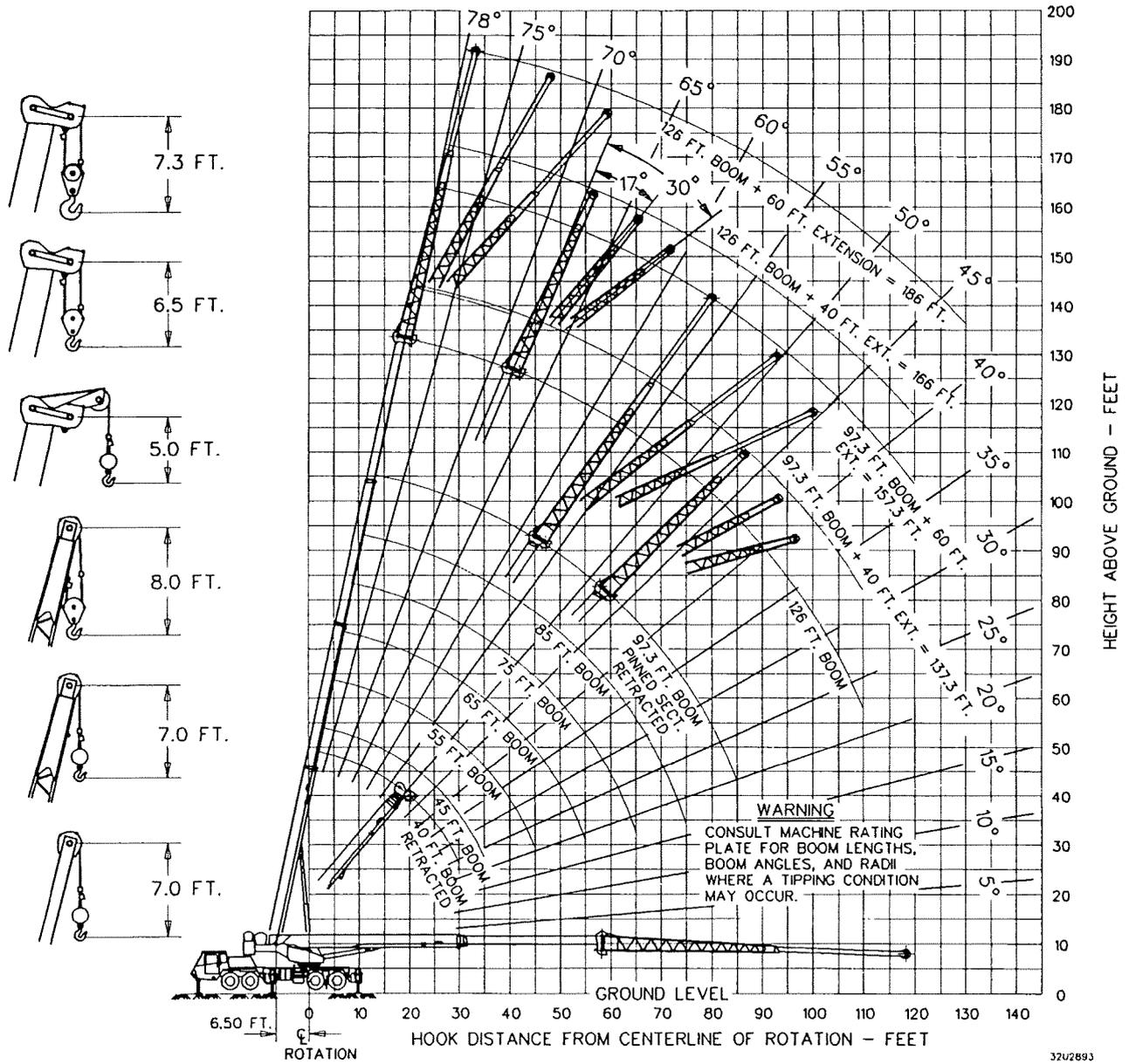
Weight Distribution

	Pounds			Kilograms		
	Gross	Front	Rear	Gross	Front	Rear
Basic Carrier	37756	15739	22017	17126	7139	9987
Basic Upper	6687	179	6508	3033	81	2952
Standard Components:						
126 ft. 4-section Boom	21473	15867	5606	9740	7197	2543
Boom Sheaves - steel	408	745	-337	185	338	-153
Boom Hoist Cylinder	3078	1537	1541	1396	697	699
Main Winch (#2080)	1799	-650	2449	815	-296	1111
Aux. Winch Plumbing & Controls	108	-31	139	49	-14	63
.75 x 550' Main Winch Wire Rope	584	-135	719	265	-61	326
Slab Counterweight or Aux. Winch	1367	-666	2033	620	-302	922
Front Tires - 425/65R 22.5	1338	1338	0	607	607	0
Rear Tires - 12.00R 20	2216	0	2216	1005	0	1005
DD 6V92TA Engine	3828	3534	294	1736	1603	133
Removable Counterweight	5897	-2842	8739	2675	-1289	3964
Counterweight Shell - 2599 lbs.	2599	-1209	3808	1179	-548	1727
Hydraulic Front Stabilizer	496	721	-225	225	327	-102
HD Battery	48	24	24	22	11	11
Air Dryer	33	23	10	15	11	4
360° Houselock	42	11	31	19	5	14
Basic Machine	89757	34185	55572	40712	15506	25206
Adjustments for Options (basic machine)						
Front Tires 14.00 R 20	185	185	0	84	84	0
Rear Tires 14.00 R 20	911	0	911	414	0	414
Additions for Options (Attachments)						
20 ton Hook Block (on rear deck)	580	-198	778	263	-90	353
8.5 ton Ball Hook (on rear deck)	264	-90	354	120	-41	161
Auxiliary Sheave	154	293	-139	70	133	-63
.75 x 550' Aux. Winch Wire Rope	584	-284	868	265	-127	392
40' Lattice Extension	1753	1556	197	795	706	89
40' to 60' Lattice Extension	2804	2126	678	1272	965	307
Offset Material - boom extension	147	266	-119	67	121	-54
65 ton Hook Block at Front Bumper	1131	1891	-760	513	858	-345
65 ton Hook Block at Rear Outrigger	1131	-395	1526	513	-179	692
Additions for Options - Upper						
Diesel Heater	55	-5	60	25	-2	27
Propane Heater	53	-4	57	24	-2	26
Propane Tank - Full	49	-5	54	22	-2	24
Floodlights	29	17	12	13	8	5
Additions for Options - Carrier						
Rear Pintle Hook	27	-11	38	12	-5	17

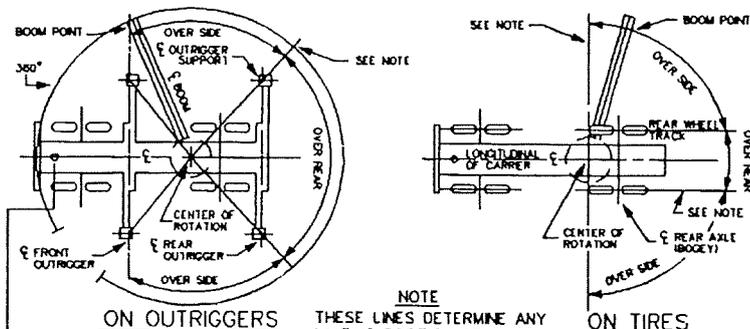
MAIN HOIST REEVING										
3/4" DIA. WIRE ROPE BREAKING STRENGTH 58,800 LBS. 6X37 FW I.W.R.C. 3.5:1										
Part of line	1	2	3	4	5	6	7	8	9	10
Maximum Load	15000	30000	45000	60000	75000	90000	105000	120000	130000	-
AUXILIARY HOIST REEVING										
3/4" DIA. WIRE ROPE BREAKING STRENGTH 51,800 LBS. 8X19 I.W.R.C. 5.0:1										
Part of line	1	2	3	4	5	6	7	8	9	10
Maximum Load	10000	20000	30000	40000	50000	60000	70000	80000	90000	100000

Crane Range Diagram - 126 Foot Boom

CHART 3



Areas of Operation



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

WHEN HYDRAULIC FRONT STABILIZER IS SET, "OVER SIDE" RATINGS ARE APPLICABLE TO "OVER FRONT" AREA OF OPERATION.

Load Ratings - with 8,500 lbs. Counterweight PCSA Class 10-242

CHART 4

OPERATING RADIUS FT.		RATED LOADS IN POUNDS ON OUTRIGGERS																OPERATING RADIUS FT.				
		POWERED BOOM LENGTH IN FEET - MANUAL RETRACTED																				
		40 FT.		45 FT.		55 FT.		65 FT.		75 FT.		85 FT.		97.3 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	68	130000	130000	71	102000	102000	74	94800	94800							10						
12	65	115000	115000	68	98400	98400	72	88000	88000	75	80400	80400				12						
15	60	90000	90000	64	90000	90000	69	84000	84000	73	72800	72800	75	60500	60500	15						
20	51	67000	67000	56	67000	67000	63	66900	66900	68	63500	63500	72	53000	53000	74	44500	44500	77	33000	33000	20
25	40	52000	52000	48	52000	52000	57	51900	51900	63	51700	51700	68	45000	45000	71	39000	39000	74	32500	32500	25
30	27	41700	41700	38	41700	41700	50	41600	41600	58	41600	41600	63	40000	40000	67	34200	34200	71	29000	29000	30
35				25	31700	32400	43	31700	32400	52	31700	32400	59	31700	32400	63	30200	30200	67	25500	25500	35
40							34	24200	25300	46	24200	25300	54	24200	25300	59	24200	25300	64	22700	22700	40
45							22	18700	19900	39	18700	19900	49	18700	19900	55	18700	19900	61	18700	19900	45
50										31	15000	16200	43	15000	16200	51	15000	16200	57	15000	16200	50
55										21	12100	13400	37	12100	13400	46	12100	13400	53	12100	13400	55
60													29	9700	10900	41	9700	10900	49	9700	10900	60
65													19	7900	9000	35	7900	9000	45	7900	9000	65
70																28	6400	7500	40	6400	7500	70
75																18	5100	6200	35	5100	6200	75
80																			29	4000	5000	80
85																			22	3100	4000	85

(32R998)

Information:

- Crane load ratings on outriggers do not exceed 85% of tipping.
- Flatings above 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 hook blocks.

See deductions Chart no. 15 on page 12. Weights of slings and all other load handling devices shall be considered part of the load.

- Crane load ratings with outriggers are based on outriggers fully extended and set to a distance of 11 ft. 9 3/4 in. from the longitudinal axis of the carrier to the outrigger float pivot connection with all load removed from carrier wheels.
- Counterweight 8,500 lbs. with 5900 lb. removable.

CHART 5

LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED

PINNED SECTION EXTENDED			LATTICE EXTENSION WITH PINNED SECTION RETRACTED						LATTICE EXTENSION WITH PINNED SECTION EXTENDED														
40 FT.			40 FT.		40 FOOT TELESCOPIC		60 FT.		40 FT.		40 FOOT TELESCOPIC		60 FT.										
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								
30	76	20700	20700	30	77	16000	16000	30	77	15600	15600	30											
35	74	19000	19000	35	75	14800	14800	35	75	14200	14200	35											
40	72	17500	17500	40	73	13700	13700	40	73	13000	13000	40	75	10000	10000								
45	69	16500	16500	45	71	12800	12800	45	71	12100	12100	45	74	9300	9300								
50	67	15000	15000	50	69	12000	12000	50	69	11100	11100	50	72	8600	8600								
55	64	14000	14000	55	66	11000	11000	55	67	10300	10300	55	70	7500	7500								
60	62	11700	12800	60	64	10500	10500	60	64	9700	9700	60	68	7000	7000								
65	59	9900	11000	65	62	9900	9900	65	62	9100	9100	65	66	6600	6600								
70	56	8300	9400	70	59	8900	9400	70	60	8200	8600	70	64	6200	6200								
75	53	7000	8100	75	57	7500	8500	75	57	6800	7700	75	62	5900	5900								
80	50	5900	6900	80	54	6400	7300	80	54	5700	6600	80	60	5600	5600								
85	45	5000	5900	85	51	5400	6300	85	51	4700	5500	85	58	5300	5300								
90	43	4200	5000	90	48	4500	5400	90	48	3800	4600	90	56	5000	5000								
100	35	2700	3700	100	42	3100	3900	100	42	2300	3200	100	51	3500	4300								
110	25	-	2500	110	35	2000	2600	110	35	-	1900	110	46	2300	3100								
																120	40	-	2000	120	44	-	2300

(32R998)

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

WARNING:

- A tipping condition will occur (with or without hook block) with 40 or 60 ft. boom extension due to the following conditions:
- Do not exceed 120 feet operating radius with pinned main boom section retracted.
 - Do not exceed 120 feet operating radius with pinned main boom section extended.

Load Ratings for Offset Extension with 8,500 lb. counterweight

CHART 6

17° OFFSET EXTENSION IN POUNDS WITH OUTRIGGERS EXTENDED AND SET																			
LATTICE EXTENSION WITH PINNED SECTION RETRACTED						LATTICE EXTENSION WITH PINNED SECTION EXTENDED													
OPERATING RADIUS IN FT.	40 FT.			40 FT. TELESCOPIC			60 FT.			40 FT.			40 FT. TELESCOPIC			60 FT.			
	FOR ALL BOOM LENGTHS 29.0' TO 36.3 FT.			FOR ALL BOOM LENGTHS 60.0' TO 37.5 FT.			FOR ALL BOOM LENGTHS 60.0' TO 52.5 FT.			FOR ALL BOOM LENGTHS 02.7' TO 05 FT.			FOR ALL BOOM LENGTHS 06.7' TO 06 FT.			FOR ALL BOOM LENGTHS 26.7' TO 66 FT.			
	△°	SIDE	REAR	△°	SIDE	REAR	△°	SIDE	REAR	△°	SIDE	REAR	△°	SIDE	REAR	△°	SIDE	REAR	
36	78	9300	9300	36			36			36			36			36			
40	76	8900	8900	40	76	8000	8000	40			40			40			40		
45	74	8500	8500	45	74	7700	7700	45			45			45			45		
50	72	8100	8100	50	73	7300	7300	50	77	5100	5100	50	77	8300	8300	50	77	7300	7300
55	69	7800	7800	55	70	7000	7000	55	75	4900	4900	55	75	8100	8100	55	76	7100	7100
60	67	7500	7500	60	68	6700	6700	60	73	4700	4700	60	73	7700	7700	60	74	6900	6900
65	65	7200	7200	65	66	6400	6400	65	71	4500	4500	65	71	7300	7300	65	72	6400	6400
70	62	7000	7000	70	63	6200	6200	70	69	4300	4300	70	69	6900	6900	70	70	6000	6000
75	60	6800	6800	75	61	6000	6000	75	67	4100	4100	75	67	6500	6500	75	68	5700	5700
80	57	6600	6600	80	58	5800	5800	80	65	3900	3900	80	65	6200	6200	80	66	5400	5400
85	54	6100	6400	85	55	5400	5600	85	63	3800	3800	85	63	5900	5900	85	64	5100	5100
90	52	5200	6000	90	53	4500	5300	90	61	3700	3700	90	61	5600	5600	90	62	4800	4800
100	45	3600	4400	100	46	2800	3700	100	56	3400	3400	100	57	4400	5100	100	57	3600	4300
110	37	2200	3000	110	38	-	2200	110	51	3000	3200	110	52	3100	3800	110	52	2300	3100
								120	45	1900	2500	120	47	2000	2700	120	47	-	1900
																120	56	2500	2900
																130	52	-	2200

NOTES

- See Main Load Rating Chart on outriggers for warnings, definitions, information and reeving.
- For Bucket Ratings on 60 ft. extension, deduct 20% from load ratings.
- Stability ratings do not exceed 85% of tipping loads.
- 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.
- 8,500 lb. counterweight with 5,900 lb. removable.

(32U2636)

CHART 7

30° OFFSET EXTENSION IN POUNDS WITH OUTRIGGERS EXTENDED AND SET																			
LATTICE EXTENSION WITH PINNED SECTION RETRACTED						LATTICE EXTENSION WITH PINNED SECTION EXTENDED													
OPERATING RADIUS IN FT.	40 FT.			40 FT. TELESCOPIC			60 FT.			40 FT.			40 FT. TELESCOPIC			60 FT.			
	FOR ALL BOOM LENGTHS 29.0' TO 36.3 FT.			FOR ALL BOOM LENGTHS 60.0' TO 37.5 FT.			FOR ALL BOOM LENGTHS 60.0' TO 52.5 FT.			FOR ALL BOOM LENGTHS 02.7' TO 05 FT.			FOR ALL BOOM LENGTHS 06.7' TO 06 FT.			FOR ALL BOOM LENGTHS 26.7' TO 66 FT.			
	△°	SIDE	REAR	△°	SIDE	REAR	△°	SIDE	REAR	△°	SIDE	REAR	△°	SIDE	REAR	△°	SIDE	REAR	
36				36			36			36			36			36			
40				40			40			40			40			40			
45	77	7100	7100	45	77	6300	6300	45			45			45			45		
50	75	6900	6900	50	76	6100	6100	50			50			50			50		
55	73	6700	6700	55	73	5900	5900	55			55	78	6800	6800	55	78	5900	5900	
60	71	6500	6500	60	71	5700	5700	60	77	3900	3900	60	76	6600	6600	60	76	5800	5800
65	68	6300	6300	65	69	5500	5500	65	75	3700	3700	65	74	6500	6500	65	74	5600	5600
70	66	6100	6100	70	66	5400	5400	70	73	3600	3600	70	72	6400	6400	70	73	5500	5500
75	63	6000	6000	75	63	5200	5200	75	71	3500	3500	75	70	6100	6100	75	71	5300	5300
80	60	5900	5900	80	61	5100	5100	80	69	3400	3400	80	68	5800	5800	80	69	5000	5000
85	57	5800	5800	85	58	5000	5000	85	67	3300	3300	85	66	5600	5600	85	66	4700	4700
90	55	5600	5700	90	55	4900	4900	90	64	3200	3200	90	64	5300	5300	90	64	4500	4500
100	48	3900	4700	100	48	3300	4000	100	60	3000	3000	100	59	4800	4900	100	60	4100	4100
110	40	2400	3200	110	41	1800	2500	110	54	2900	2900	110	54	3400	4100	110	55	2700	3400
								120	48	2300	2800	120	49	2300	3000	120	49	-	2200
								130	40	-	1800	130	42	-	1900	130	55	1800	2500

(32U2636)

Load Ratings - with 2500 lbs. Counterweight PCSA Class 10-195

CHART 8

OPERATING RADIUS IN FEET		RATED LOADS IN POUNDS ON OUTRIGGERS																		OPERATING RADIUS IN FEET		
		POWERED BOOM LENGTH IN FEET - MANUAL RETRACTED																				
		40 FT.		45 FT.		55 FT.		65 FT.		75 FT.		85 FT.		97.3 FT.								
		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								
10	68	130000	130000	71	102000	102000	74	94800	94800											10		
12	65	115000	115000	68	98400	98400	72	88000	88000	75	80400	80400									12	
15	60	87000	87000	64	86900	86900	69	84000	84000	73	72800	72800	75	60500	60500						15	
20	51	63500	63500	56	63500	63500	63	63400	63400	68	63200	63200	72	53000	53000	74	44500	44500	77	33000	33000	20
25	40	49000	49000	48	49000	49000	57	49000	49000	63	48900	48900	68	45000	45000	71	39000	39000	74	32500	32500	25
30	27	35800	36700	38	35800	36700	50	35800	36700	58	35800	36700	63	35800	36700	67	34200	34200	71	29000	29000	30
35				25	25800	27400	43	25800	27400	52	25800	27400	59	25800	27400	63	25800	27400	67	25500	25500	35
40							34	19500	21200	46	19500	21200	54	19500	21200	59	19500	21200	64	19500	21200	40
45							22	14800	16500	39	14800	16500	49	14800	16500	55	14800	16500	61	14800	16500	45
50										31	11600	13300	43	11600	13300	51	11600	13300	57	11600	13300	50
55										20	9100	10700	37	9100	10700	46	9100	10700	53	9100	10700	55
60													29	7000	8500	41	7000	8500	49	7000	8500	60
65													19	5500	6900	35	5500	6900	45	5500	6900	65
70																28	4200	5500	40	4200	5500	70
75																18	3100	4400	35	3100	4400	75
80																			29	2100	3400	80
85																			22	-	2500	85

(32R1010)

INFORMATION:

- Crane load ratings, on outriggers, 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 chart no. 15, deductions).

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 inches from the longitudinal axis of the outrigger float pivot connection with all load removed from carrier wheels.
- Counterweight 2500 lbs. with none removable.

CHART 9

OPERATING RADIUS IN FEET		LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED																		OPERATING RADIUS IN FEET					
		LATTICE EXTENSION WITH PINNED SECTION RETRACTED																							
		40 FT.		45 FT.		55 FT.		65 FT.		75 FT.		85 FT.		97.3 FT.											
		RATED LOADS IN POUNDS		RATED LOADS IN POUNDS		RATED LOADS IN POUNDS		RATED LOADS IN POUNDS		RATED LOADS IN POUNDS		RATED LOADS IN POUNDS		RATED LOADS IN POUNDS											
SIDE		REAR		SIDE		REAR		SIDE		REAR		SIDE		REAR											
30	76	20700	20700	30	77	16000	16000	30	77	15600	15600	30													
35	74	19000	19000	35	75	14800	14800	35	75	14200	14200	35	77	10000	10000	35									
40	72	17500	17500	40	73	13700	13700	40	73	13000	13000	40	75	9300	9300	40	77	11200	11200	40	78	10300	10300	40	
45	69	16500	16500	45	71	12800	12800	45	71	12100	12100	45	74	8600	8600	45	76	10500	10500	45	76	9600	9600	45	
50	67	13800	15000	50	69	12000	12000	50	69	11100	11100	50	72	8000	8000	50	74	9800	9800	50	74	9000	9000	50	
55	64	11300	12800	55	67	11000	11000	55	67	10300	10300	55	70	7500	7500	55	72	9200	9200	55	72	8400	8400	55	
60	61	9100	10500	60	64	9700	10500	60	64	9000	9700	60	68	7000	7000	60	70	8600	8600	60	70	7800	7800	60	
65	59	7500	9000	65	62	8000	9300	65	62	7300	8500	65	66	6600	6600	65	69	8100	8100	65	69	7300	7300	65	
70	56	6100	7500	70	60	6700	7900	70	60	6000	7200	70	64	6200	6200	70	67	7400	7700	70	67	6700	6800	70	
75	53	5000	6300	75	57	5500	6700	75	57	4800	6000	75	62	5900	5900	75	65	6300	7200	75	65	5500	6400	75	
80	49	4100	5300	80	55	4500	5600	80	54	3800	4900	80	60	5000	5600	80	63	5300	6300	80	63	4500	5600	80	
85	46	3200	4400	85	52	3600	4700	85	51	2900	4000	85	58	4100	5100	85	60	4400	5400	85	61	3600	4700	85	
90	43	2500	3600	90	49	2900	3900	90	48	2100	3200	90	56	3400	4300	90	58	3600	4600	90	59	2900	3900	90	
100	35	-	2300	100	43	-	2500	100	42	-	1800	100	51	2000	3000	100	53	2400	3300	100	54	-	2400	100	
													110	46	-	1800	110	48	-	2100	110	56	-	2400	

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

WARNING:

A tipping condition will occur (with or without hookblock) with 40 or 60 ft. boom extension due to the following conditions:

- Do not exceed 110 ft. operating radius with pinned main boom section retracted.
- Do not exceed 110 ft. operating radius with pinned main boom section extended.

(32R1010)

Load Ratings on Tires

With 8,500 lbs. Counterweight

CHART 12

Load Ratings in Pounds				OPERATING RADIUS IN FEET	Load Ratings in Pounds			
14.00 R 20 - 18 PR Tires					12.00 R 20 - 16 PR Tires			
STATIONARY		TRAVEL RATINGS OVER REAR			STATIONARY		TRAVEL RATINGS OVER REAR	
OVER SIDE	OVER REAR	CREEP	2 1/2 MPH	OVER SIDE	OVER REAR	CREEP	2 1/2 MPH	
39400	21500	31400	29200	10	39000	21500	31200	29000
34000	17900	27800	25800	12	33700	17900	27600	25600
28400	13800	23800	22000	15	28200	13800	23500	21900
21000	9000	18700	17700	20	21000	9000	18500	17400
14500	5800	14500	14100	25	14500	5800	14500	13900
10300	3200			30	10300	3200		
7500				35	7500			
5500				40	5500			
3900				45	3900			

(32U2643)

(32U2638)

With 2,500 lbs. Counterweight

CHART 13

Load Ratings in Pounds				OPERATING RADIUS IN FEET	Load Ratings in Pounds			
14.00 R 20 - 18 PR Tires					12.00 R 20 - 16 PR Tires			
STATIONARY		TRAVEL RATINGS OVER REAR			STATIONARY		TRAVEL RATINGS OVER REAR	
OVER SIDE	OVER REAR	CREEP	2 1/2 MPH	OVER SIDE	OVER REAR	CREEP	2 1/2 MPH	
35900	19100	30200	28200	10	35900	19100	30200	28200
31200	15700	26000	24700	12	31200	15700	26000	24700
26200	11800	21600	20400	15	26200	11800	21600	20400
17200	6800	17000	16000	20	17200	6800	17000	16000
11600	3500	11600	11600	25	11600	3500	11600	11600
8000				30	8000			
5500				35	5500			
3700				40	3700			
2300				45	2300			

(32U2670)

(32U2669)

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.
3. 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 rating 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 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.

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 powered boom must be equally extended within one foot.

DEFINITIONS

1. 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.

2. Loaded boom angle, as shown in the column headed by Δ is the included angle between the horizontal and longitudinal axes of the boom base after lifting rated load at rated radius.

DEFINITIONS:

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

INFORMATION:

1. Deductions must be made from rated loads for stowed lattice extension, optional attachments, hooks and hookblocks. (See Chart no. 15) 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.

WARNINGS:

1. Crane load ratings without outriggers depends on tire capacity and condition of tires inflated per Chart no. 14.

2. When transporting a load, machine must be on firm, level surface with mechanical house lock engaged. The load must be centered over rear of machine and restrained from swinging. See "Areas of Operation" on page 6 for working ranges.

3. Lift loads with minimum boom length: Do not exceed 75 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 68° without load.

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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!

CHART 14	Tire Air Pressure - PSI					
	DESC.	STATIC	CREEP	2 1/2 MPH	50 MPH	
FR & RR tire	14.00R20 G286	130	130	120	(S) 100	(D) 90
Rear Tire	12.00R20 G188	150	150	130	110	
Front	425/65R22.5 G165	115	105	105	105	

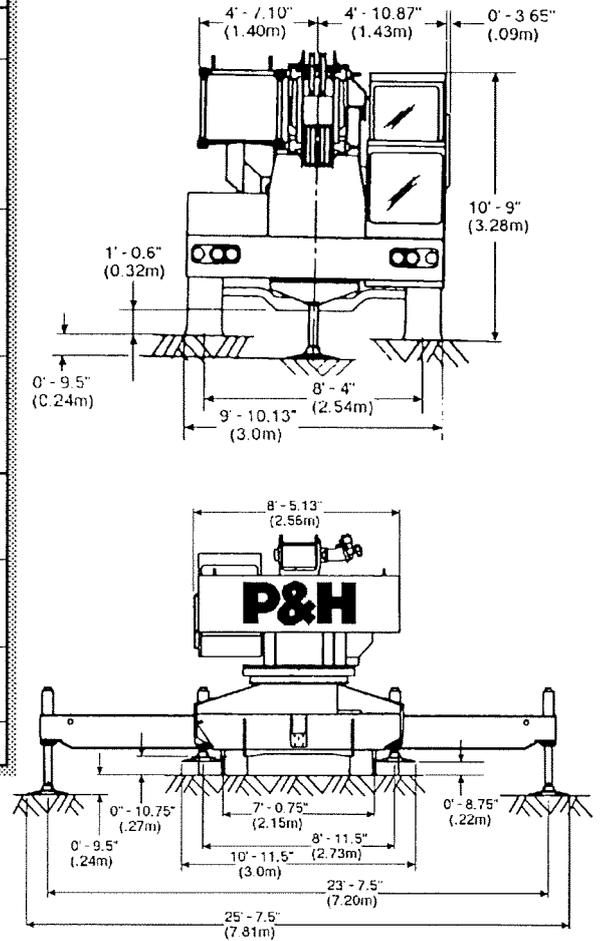
CHART 15

DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS

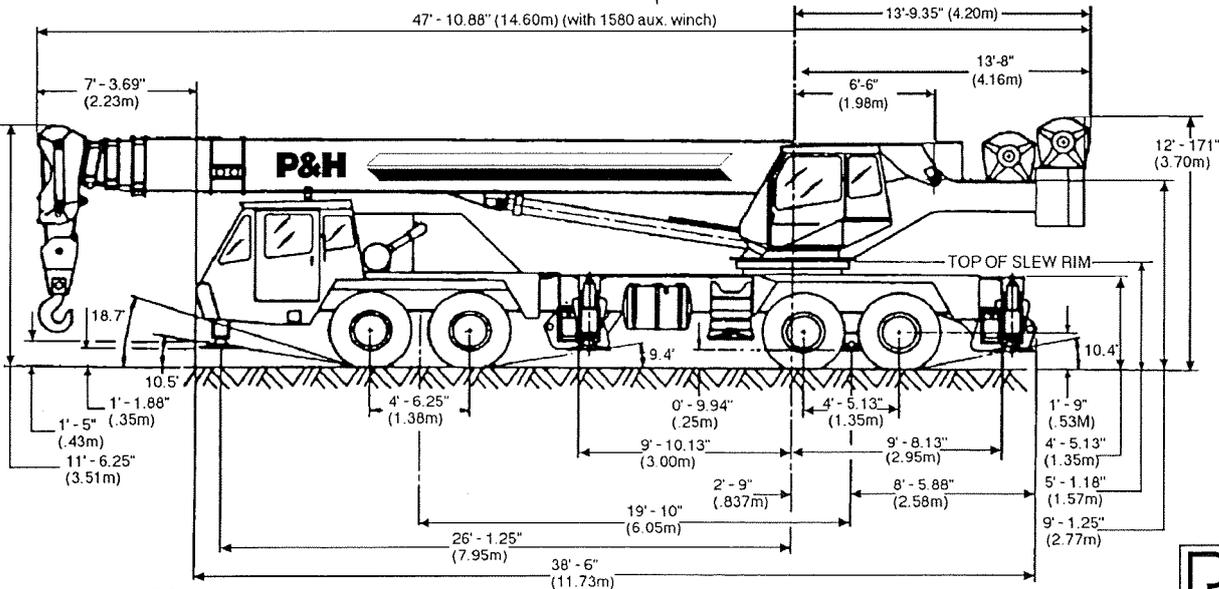
DESCRIPTION		WITHOUT HOOK BLOCK ON BOOM POINT	HOOK BLOCK ON POWERED BOOM POINT				
			8.5 - 20 TON	65 TON	8.5 - 20 TON WITH AUXILIARY SHEAVE	65 TON WITH AUXILIARY SHEAVE	
HOOK BLOCK WEIGHT		-	580	1130	780	1320	
HOISTING LOAD FROM POWERED BOOM	40 FT. LATTICE EXTENSION	Stowed	-	950	1500	1150	1700
		Erected only	-	4000	4550	4200	4750
		8.5-15 ton Ball	-	5650	6200	5850	6400
		20 ton Block	-	6050	6600	6250	6800
	40 - 60 FT. LATTICE EXTENSION	Stowed	-	850	1400	1050	1600
		Erected only	-	5700	6250	5900	6450
		8.5-15 ton Ball	-	7400	7900	7550	8100
		20 ton Block	-	7800	8300	7950	8500
	40 FT. LATTICE EXTENSION	Erected only	-	5700	6250	5900	6450
		8.5-215 ton Ball	-	7800	8350	8000	8550
		20 ton Block	-	8300	8850	8500	9050
	HOISTING LOAD FROM EXTENSION	40 FT. LATTICE EXTENSION	8.5-15 ton Ball	470	800	1100	900
20 ton Block			580	900	1200	1000	1300
40 - 60 FT. LATTICE EXTENSION		8.5-15 ton Ball	470	800	1100	900	1200
		20 ton Block	580	900	1200	1000	1300
60 FT. LATTICE EXTENSION		8.5-15 ton Ball	470	750	1000	850	1100
		20 ton Block	580	850	1100	950	1200

NOTE: THESE LOAD DEDUCTIONS APPLY ONLY TO P&H SUPPLIED EQUIPMENT

General Dimensions



TIRES	425/65R 22.5	14.00R 20
VEHICLE TURNING DIAMETER	84.02 FT. (25.61M)	87.38 FT. (26.63M)
VEHICLE CLEARANCE DIAMETER	85.55 FT. (28.97M)	88.79 FT. (27.07M)
TIRE CENTERLINE	84.02 FT. (25.61M)	87.38 FT. (26.63M)
TIRE CLEARANCE/ WITH CURB	85.55 FT. (28.97M)	88.79 FT. (27.07M)
CARRIER CLEARANCE	95.02 FT. (28.96M)	98.05 FT. (29.89M)
BOOM CLEARANCE	98.97 FT. (30.17M)	101.55 FT. (30.96M)
EXTENSION CLRNCE	103.12 FT. (31.43M)	105.89 FT. (32.28M)



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.

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