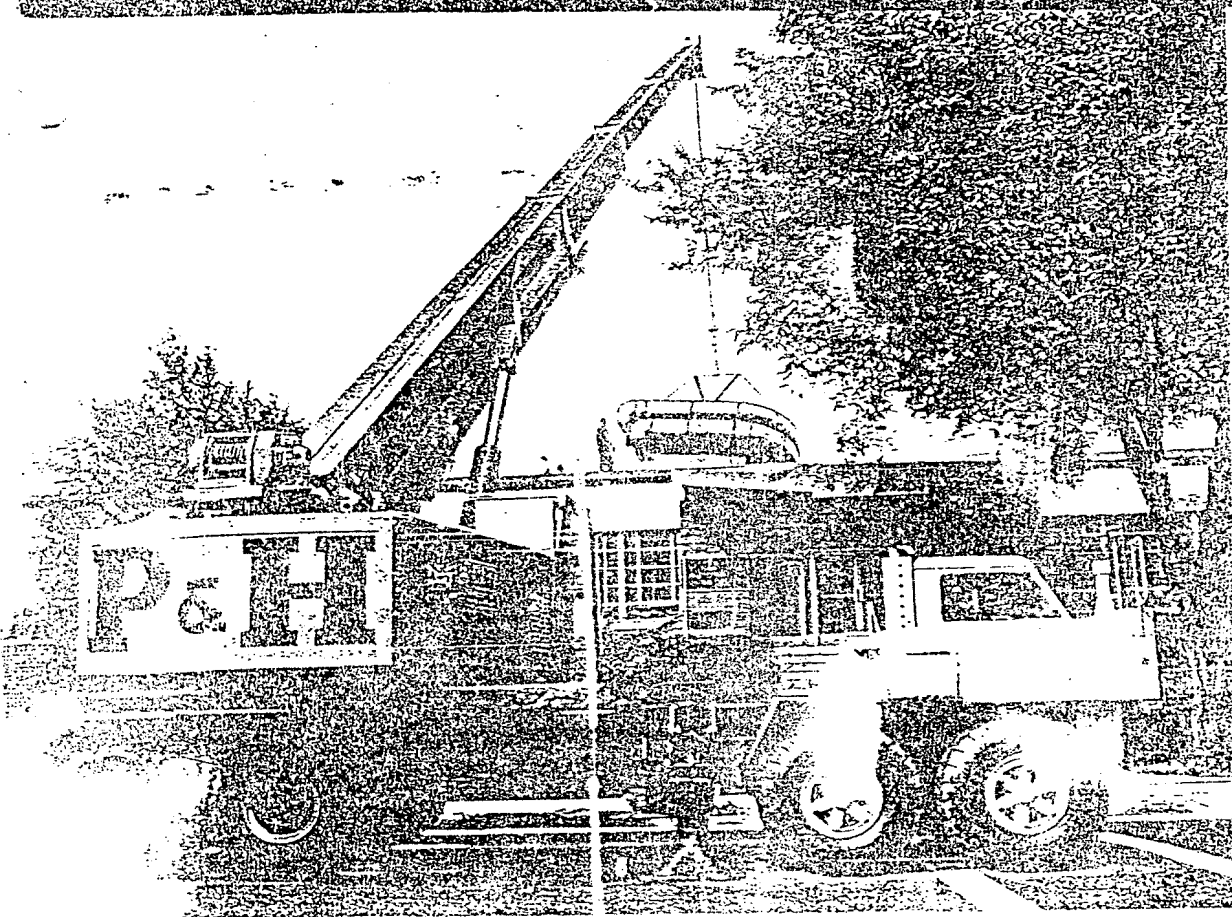


P&H

75

75-TON FULLY HYDRAULIC TRUCK CRANE



HIGH
PERFORMANCE
DESIGN
FOR GREATER
PROFITABILITY

- High torque P&H winches
- New 4-section all-hydraulic telescoping boom
- 48' telescoping jib for 150' maximum reach
- Full 75-ton usage capacity
- Low overall height - under 12'
- Exclusive P&H Controls with independent horizontal and vertical motions
- 22' minimum
- Powerful Harnischfeger-built carrier
- Controlled free-fall for fast load lowering
- Three lever synchronizer telescoping
- Boom dip lowers for easy reeving or jib installation
- Exclusive P&H Volumatic Hydraulic System

SPECIFICATIONS

CARRIER — (8 x 4)

UPPER MACHINERY

ENGINE: GM6V53N Diesel, 6 blade 24" blower fan, tachometer-hourmeter mounted in operator's cab, foot and positive position hand throttle, 187 H.P. at 2800 R.F.M.

ELECTRICAL SYSTEM: 12 Volt — 62 AMP Alternator and Starter.

AIR CLEANER: Farr — Pamic dry type.

PUMP DRIVE: Single spur gear, 1.60/1 reduction.

FUEL TANK: 92½ gallons.

HYDRAULIC PUMPS: Pump drive mounted, dual, inline gear pumps, 105 and 92 GPM engine mounted, 8 GPM winch brake pump — Suction line shut off valves.

HYDRAULIC TANK: 200 gallon capacity — Pressurized, baffled, diffuser system — Full flow filtration with dirty element signal for remote indication. Removable, magnetic bayonet — Sight level gage with full and low readout.

OIL COOLER: Mounted in front of engine radiator with partial oil flow.

CONTROL VALVES: Pressure compensated, one three and one four stack.

CONTROLS: Long hand levers to control swing, main winch and boom hoist with synchronized boom telescope and three lever individual cylinder repositioning — Winch brake release valve operated by forward motion of winch lever — Boom hoist, hand or foot operated — Winch drum turn indicator on winch lever.

SWING REDUCER: Staggered gear swing motor driving through double reduction spur gearing to output swing pinion for 360° rotation and swing speed of 2 R.P.M.

SWING BRAKE: Disc type, spring applied brake with hand valve and adjustable glide foot control.

SWING CIRCLE: Double row roller bearing with integral swing gear.

MAIN WINCH: P&H No. 16 winch, mounted on boom base section. Planetary gearing for equal speed power raising and lowering — Infinitely variable control valve with spring loaded caliper disc brake and integral free fall operated by forward motion of winch lever — Grooved 15" dia. drum — 20" long, 23.5" dia. flanges — Line speed, 3rd wrap — 240 FPM — Available line pull — 3rd wrap 13,000 pounds — Permissible line pull — 13,000 pounds — 3/4" — 8 x 19 spin resistant cable 500 ft.

AUXILIARY WINCH: P&H No. 10, Optional. Planetary gearing with spring loaded caliper disc brakes — Infinitely variable control valve with integral controlled free fall operated by forward motion of winch lever — Grooved 10" dia. drum, 14" long 18" dia. flanges — Line speed, 3rd wrap, 240 FPM — Available line pull, 3rd wrap, 8330 pounds — Permissible line pull, 6666 pounds — ½", 8 x 19 spin resistant cable, 300 feet.

COUNTERWEIGHT: 12,000 pound casting, power removable with optional auxiliary winch.

OPERATOR'S CAB: All weather full vision with safety glass — Tachometer, hydraulic oil temperature gauge — Gage cluster including fuel, oil, pressure, ammeter, and water temperature gauges — Boom angle indicator and main drum turn indicator — Electric, remote control of outriggers — Ignition key, solenoid start — Service and emergency engine stop — Dirty hydraulic filter element light.

BOOM: Four section, three sections power telescoping, high strength steel — Four plate, rectangular with double corner welds — Ultra-high molecular weight non-metallic slider pads with self-stored adjustment shims — Length fully retracted—33'0" — Length fully extended—105'0" — Six, 18" O.D. x 16½ P.D. boom point sheaves.

BOOM HOIST: Raise and lower speeds equal—45 sec. — Individual lockouts with thermal protection on each cylinder — Self-aligning bearings on cyl. ends.

TELESCOPE: Extend and retract speeds equal—120 seconds — Integral lock valves with thermal protection.

BOOM RACK: Mounted on front of carrier to prevent upper swinging when traveling.

OPTIONS: 11½" dia. engine clutch disconnect — Auxiliary winch drum turn indicator — Signal horn (upper) — Windshield wiper — Defroster — Hook block, 75 ton, 6 sheave with swivel hook and safety latch — Hook block, 8.5 ton, 5 sheave with swivel hook and safety latch — Jib hook block, 8.5 ton, weighted ball hook with 6: without swivel safety latch — Jib, 27 ft., telescopic to 45 ft. — Jib, 27 ft. — Jib, 5 ft. — Jib, single sheave boom point extension (for extra line over boom point).

MAKE: P&H — 75 Ton Capacity

WEIGHT: Including roller bearing swing circle rim, Hydraulic outriggers with 14:00 x 20 — 18 ply tires 53,500#.

FRAME: Box section frame members of T-1 steel between outrigger housings. Heavy reinforced channel ahead of front outriggers (removable rear end frame section — standard).

OUTRIGGERS: P&H Hydraulic Scissors Type — 8 double acting Hydraulic cylinders for independent horizontal and vertical motion of each beam — solenoid valve controlled — standard.

HOUSINGS: Two independent housings front and rear, pin connected and removable — standard.

BEAMS: T-1 steel box, full length reinforced, jack screw at beam. Ends extended position from center of carrier — 11'0".

POWER PLANT:
 Diesel: GM6-71N, 6 cyl. 228 H.P. @ 2100 R.P.M. Standard, Cummins
 NHF265, 6 cyl. 256 H.P. @ 2100 R.P.M. (Optional), GMBV71N,
 8 cyl. 318 H.P. @ 2300 R.P.M. (Optional).

CLUTCH: Spicer 2-plate angle spring type.

TRANSMISSION: Main — Spicer 8553A, 5 speed forward, 1 reverse.
 Auxiliary — Spicer 8341D, 4 speed, Allison HT740D automatic, with Spicer 8031C Auxiliary, optional for GMBV71N.

BRAKES — SERVICE: Bendix Westinghouse front, Maxi Brakes rear Air on all eight wheels — Shoe type 1292 sq. in.

FRONT AXLES: Shuler Model FTCS-34L.

REAR AXLE UNIT: Timken Detroit Model SPR250 Planetary Axle. Single reduction at axle center and planetary drive at wheel hub, to four sets of dual wheels with inter-axle differential.

SUSPENSION: Solid bogie mounted with torque rods — Front and rear.
STEERING: Garrison dual Hydraulic steering with Ross TE72671 steering gear. Steering wheel diameter 21".

RADIATOR: Vertical flat tube and fin type core, thermostatic temperature control.

COOLING SYSTEM CAPACITY: 69 Gts.

FUEL TANK CAPACITY: 75 Gal. (Siphon proof tank, optional extra).

TIRES: Twelve 14:00 x 20 — 18 ply (Standard).

CAB: Steel — one man type — offset left side of engine. Safety glass.

LIGHTS: Dual headlights, tail lights, stop lights, directional signal lights front and rear, license plate lights, clearance lights on outrigger boxes and truck cab. (Clearance lights also furnished on crane cab). Reflectors on front and rear. All rear lights recessed in frame, also license plate bracket, 12 Volt electrical system.

EQUIPMENT: Front bumper, full fenders, skirts, running boards, hood, rigging compartment, frame decking, Bostrom seat, 12 Volt battery, horn, rear view mirror, air tank with hose, extension and tire inflating valve, rear view mirror, air tank with hose, extension and tire inflating valve, illuminated instrument panel, with speed meter, ammeter, air pressure gauge, fuel gauge, oil pressure gauge, water temperature indicator, low pressure indicator light, tachometer towing hooks front only, dash mounted air brake valve, tools and accessories and a set of four aluminum boots.

PERFORMANCE

Up to 45 mph, depending upon engines, transmissions and GVW. For additional data consult factory.

VEHICLE WEIGHTS (APPROXIMATE)

	Front	Rear	GVW
Standard machine w/12,000# cwt main and aux. winch, jib, hook block. (P&H Winches)	13,000	77,000	110,000
Without Counterweight	4,000	16,000	20,000
Without Hook Block	1,000	+700	1,700
Without Jib	300	-50	250
Without Rear Outrigger Beams	100	-4,900	-4,800
Without Front Outrigger Beams	500	-1,300	-800

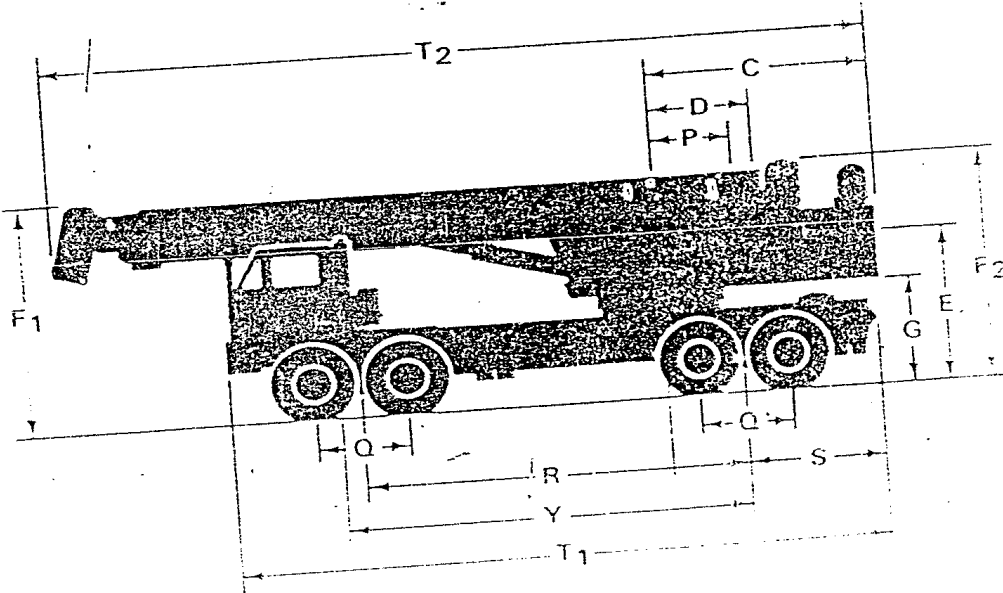
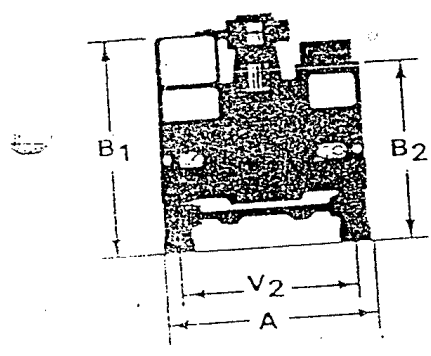
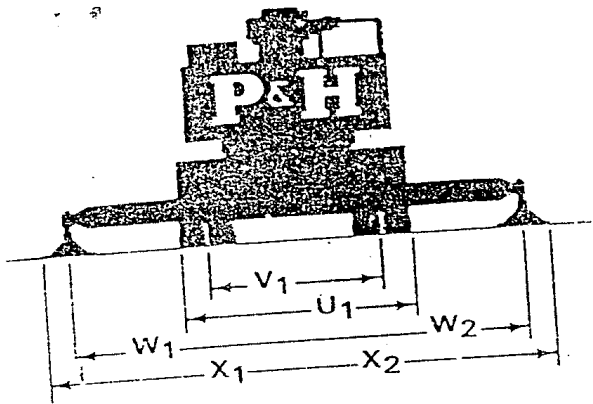
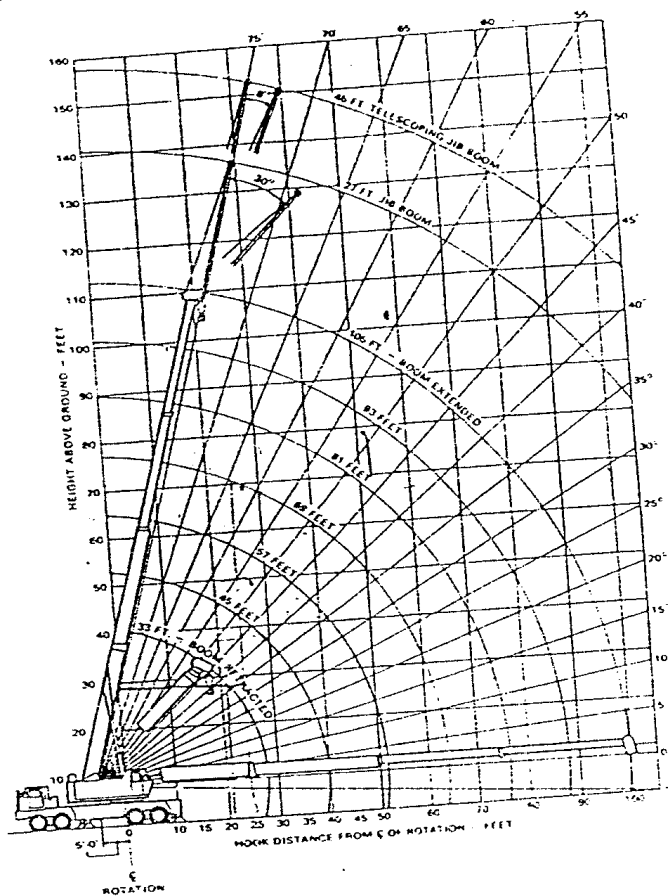
Harnischfeger
P&H



NOTE: In furtherance of our policy of continual product improvement, all designs and specifications are subject to change 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 the conditions encountered. The only warranty applicable is our standard written warranty for this machine.

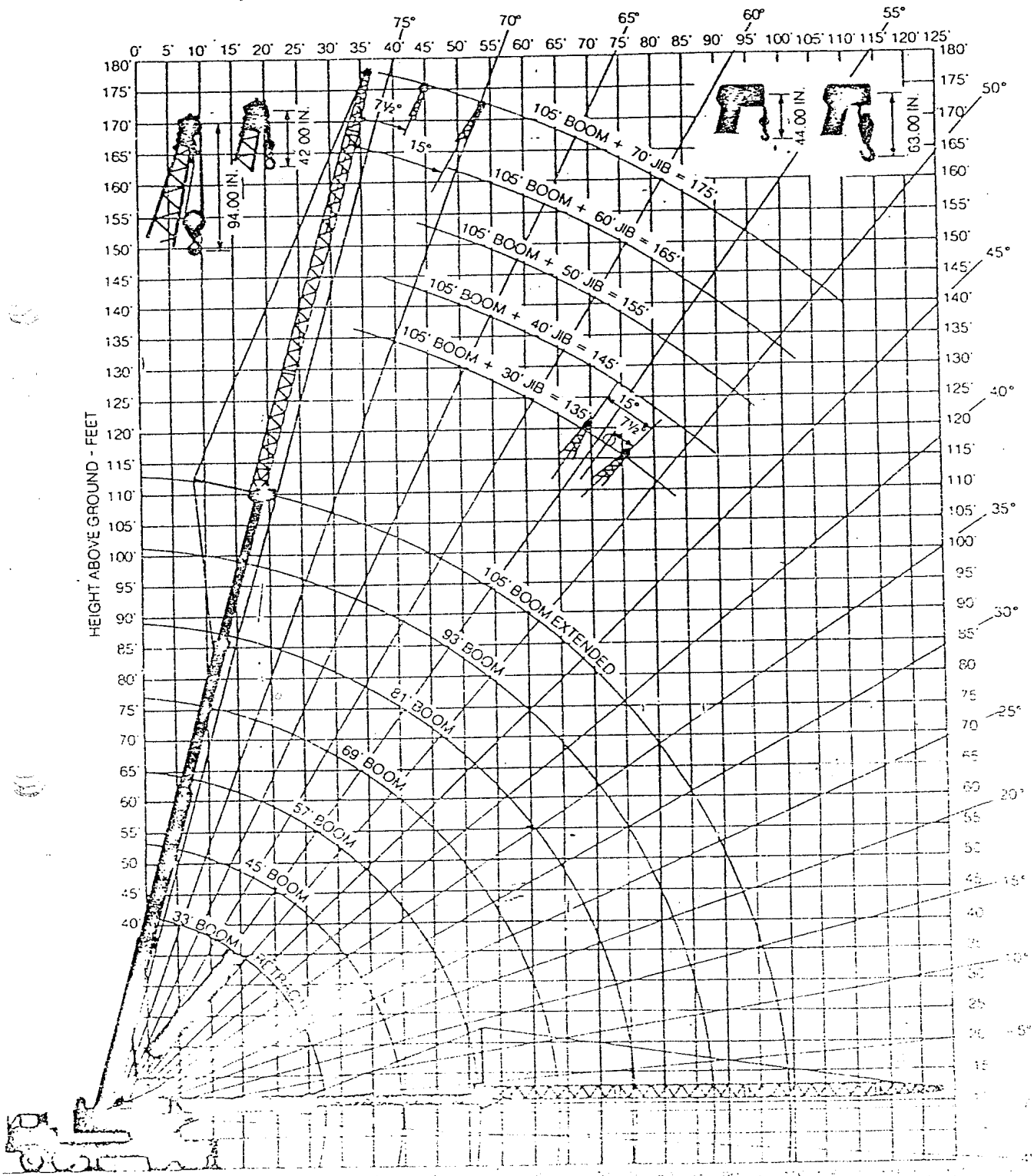
For more information, write Harnischfeger, Milwaukee, Wis. 53246 or call

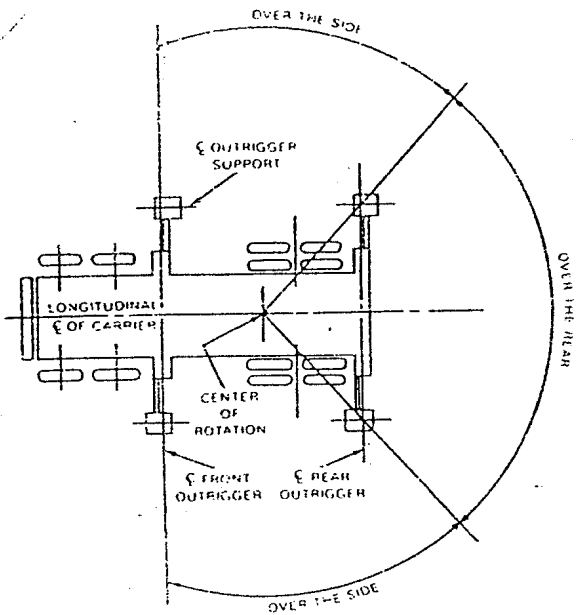
**PUTS THE BOOM
POINT WHERE THE
ACTION IS . . .
INSTANTLY!**



A	Width of Revolving Superstructure	9' 9 1/2"	S	Center of Rear Engine to Rear End of Boom	23' 11 1/2"
B1	Overall Height (Operator's Cab)	11' 1 3/4"	T1	Overall Length of Carrier	30' 11 1/2"
B2	Overall Height (Carrier Cab)	9' 1 1/4"	T2	Overall Length of Machine (Boom Retracted)	40' 2 1/2"
C	Swing Clearance	11' 7"	U1	Max Overall Width Outriggers Retracted	30' 11 1/2"
D	Axis of Rotation to Boom Foot Pin	5' 0"	V1	Tread Width - Rear Axle	5' 0"
E	Height of Boom Foot Pin above Ground	5' 3"	V2	Tread Width - Front Axle	5' 0"
F1	Max Height - Boom Head - Travel Position	11' 11"	W1	Length of Travel - Boom Head - Travel Position	11' 11"
F2	Max Height - Winch - Travel Position	11' 11 1/2"	W2	Max Length of Carrier - Travel Position	11' 11 1/2"
G	Height Counterweight to Grade	5' 3"	X1	Overall Length of Boom Head - Travel Position	11' 11 1/2"
P	Axis of Rotation to Center of Boom Head	2' 1 1/2"	X2	Max Overall Length of Boom Head - Travel Position	11' 11 1/2"
Q	Between Centers of Axles	4' 11"	Y	Hook to Center of Boom Head - Travel Position	11' 11 1/2"
R	Width Base - Center of Bottom	11' 11 1/2"			

working ranges





T-750

PCSA CLASS 12-295



QUADRANT OF OPERATION
STD. 85% LOAD RATING CHART OPERATING SECTORS

RATED LIFTING CAPACITY IN POUNDS										
MAIN BOOM LOAD RATINGS -- CAPACITY IN POUNDS										
Operating Radius in Feet	Over Side & Over Rear With Outriggers							Without Outriggers		
	Boom Length in Feet							Over Side	Over Rear	
	33	45	57	69	81	93	105			
12	150,000	90,000	33,000					40,000	50,000	
15	120,000	86,000	80,000	74,000	65,000			40,000	50,000	
20	90,000	74,000	67,000	60,000	52,000	45,000		24,500	32,000	
25	66,000	62,000	56,000	50,000	44,000	38,000	32,000	16,000	22,000	
30		48,000	42,000	43,000	38,000	32,500	27,500	11,000	15,800	
35		37,000	37,000	37,000	32,000	28,500	24,000	8,000	12,000	
40			29,500	29,500	29,500	25,000	21,500	5,600	9,000	
45				24,500	24,500	24,500	22,500	19,400	3,500	6,400
50					20,500	20,500	17,700	2,000	4,600	
50						15,000	15,000	1,000	3,200	
70							11,100	11,100		
80								8,000		
90									5,600	
100									4,200	

Minimum Boom Angle	MAXIMUM JIB LOAD RATINGS IN POUNDS			
	27 FOOT JIB		45 FOOT JIB	
	No Offset	30° Offset	No Offset	5° Offset
75	10,000	5,200	5,000	3,800
73	9,000	5,100	4,600	3,500
69	8,000	4,950	4,000	3,200
66	7,300	4,850	3,700	3,000
63	6,800	4,750	3,450	2,800
60	6,500	4,700	3,300	2,700
55	6,000	4,550	2,900	2,500
50	5,500	4,400	2,700	2,300
40	5,000	4,150	2,500	2,100
30	4,700	4,000	2,400	2,000

Maximum jib rating is based on structural competence. Jib ratings at any radius shall not exceed the main boom ratings for the same radius and shall not exceed maximum jib ratings shown. For bucket ratings on jib do not exceed 10% from jib ratings. Maximum jib operating radius shall not exceed the operating radius of main boom for any given length setting. Use of outriggers is recommended when boom is equipped with jib.

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. Load ratings are for machines with 12,000 pounds of counterweight and do not exceed 85% of tipping loads. Ratings above the heavy line are on the machine's hydraulic or structural competence and not on the machine stability. Weights of hoops, hook blocks, slings, and all other lifting devices, except the hoist rope, shall be considered a part of the load. Ratings with outriggers are based on outriggers extended and a radius of 22 ft - 0 in. from the longitudinal axis of the carrier to the outrigger float pivot connection and wheels within the boundary of the outrigger. Crane load ratings without outriggers depend on tire capacity and condition of tires inflated to 100 P.S.I. With jib in operating position, load ratings shall be reduced by 2,500 pounds. Crane load ratings are based on freely suspended loads with the machine leveled and standing on a uniform, supporting surface. Practical working loads depend on supporting surface, wind, and other factors affecting stability, hazardous situations, experience of personnel and proper handling, all of which must be taken into account by the operator. Hoisting or operation at radii and heights beyond the maximums and minimums shown is not intended or approved. For boom lengths in excess of 105 feet, load ratings of next length of exceed 60 foot radii without the use of outriggers. The maximum load which may be telescoped is limited by hydraulic pressure, 2,000 psi. All sections of the boom must be telescoped equally. For 30' boom length operations, telescopic cylinders must be fully retracted.

Operation of this equipment in excess of rated loads and disregard of instructions voids the warranty.

Winch	HOIST BEELING				PARTS OF LINE				MAXIMUM LOAD IN POUNDS			
	1	2	3	4	5	6	7	8	9	10	11	12
1	12,000	24,000	36,000	48,000	60,000	72,000	84,000	100,000	112,000	124,000	136,000	148,000
2	8,000	16,000	24,000	32,000	40,000	48,000	56,000	64,000	72,000	80,000	88,000	96,000