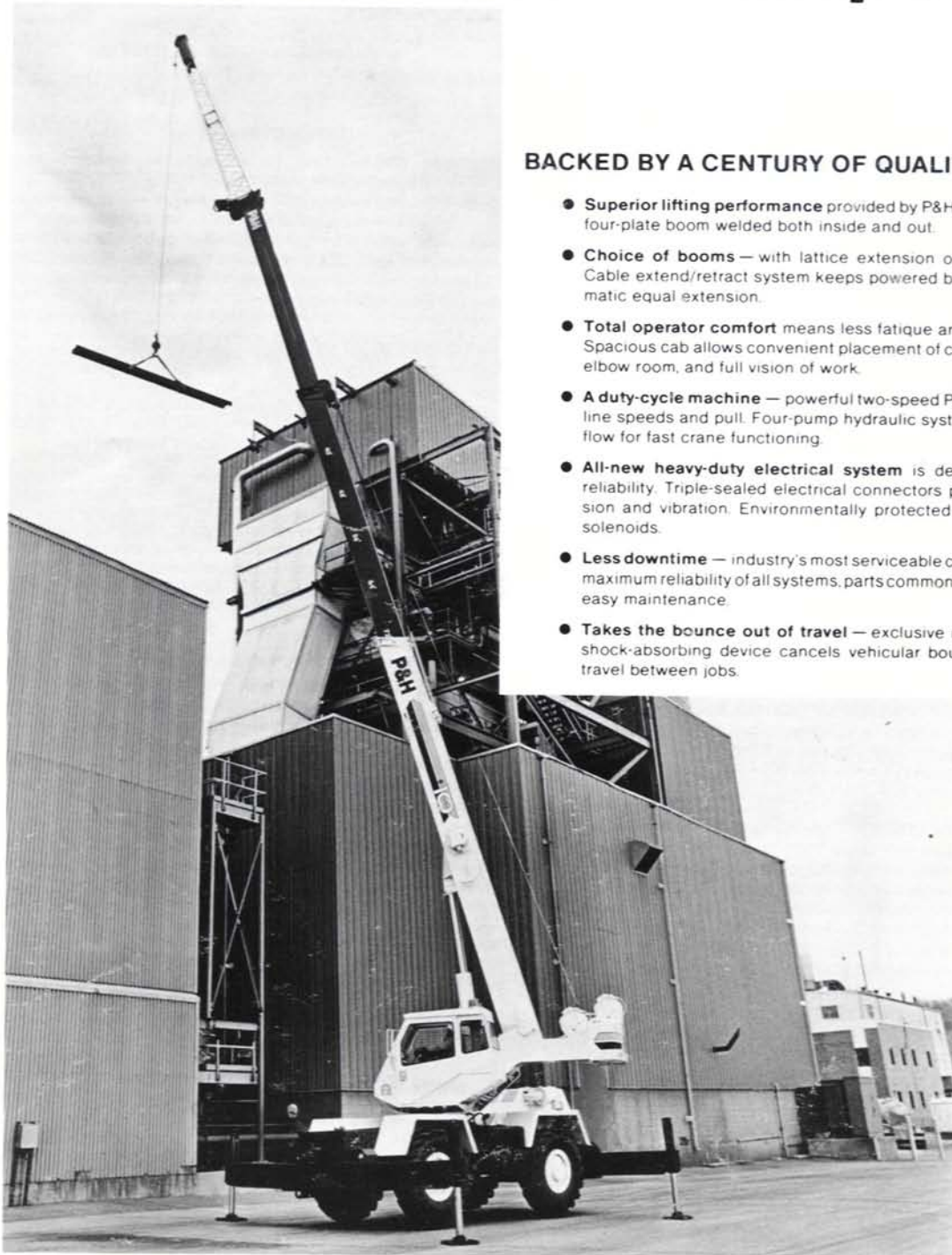


# P&H CENTURY 122

#83

## 22-ton Rough Terrain Crane *Full 122* 113-ft. (34.4m) maximum tip height



### BACKED BY A CENTURY OF QUALITY & SERVICE

- **Superior lifting performance** provided by P&H rectangular full depth four-plate boom welded both inside and out.
- **Choice of booms** — with lattice extension or A-frame jib options. Cable extend/retract system keeps powered boom sections in automatic equal extension.
- **Total operator comfort** means less fatigue and greater production. Spacious cab allows convenient placement of controls, lots of leg and elbow room, and full vision of work.
- **A duty-cycle machine** — powerful two-speed P&H winches offer high line speeds and pull. Four-pump hydraulic system provides optimum flow for fast crane functioning.
- **All-new heavy-duty electrical system** is designed for maximum reliability. Triple-sealed electrical connectors protect against corrosion and vibration. Environmentally protected switches, relays and solenoids.
- **Less downtime** — industry's most serviceable crane is engineered for maximum reliability of all systems, parts commonality, accessibility and easy maintenance.
- **Takes the bounce out of travel** — exclusive new P&H Easy Ride™ shock-absorbing device cancels vehicular bouncing motion during travel between jobs.

## Specifications

# specifications

This P&H crane meets the requirements of ANSI B30.5(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 marketed by Harnischfeger Corporation.

## BOOM



**BOOM:** All boom sections are of full depth rectangular four plate construction, welded inside and out, with adjustable slider pads on top, bottom and sides. All powered sections are single lever controlled. Block type semi-fixed telescope cylinder mounts provide ample capacity to telescope loads. Extension mechanism consists of one hydraulically powered cylinder with holding valve, which extends simultaneously, both the powered "first" section and the cable extended "second" section.

Boom point contains one idler sheave with bronze bushing and four load sheaves with roller bearings. Sheaves are 11.88" (301.7mm) pitch diameter.

## STANDARD:

62' (18.90M) three (3) section powered boom, 25' (7.62M) retracted length, 62' (18.90M) extended length, consisting of one base section, one hydraulically powered "first" section, and one cable powered "second" section with boom point.

## OPTIONAL:

72' (21.90M) three (3) section powered boom, 29' (8.8M) retracted length, 72' (21.90M) extended length, consisting of one base section, one hydraulically powered "first" section, and one cable powered "second" section with boom point.

**CABLE EXTEND MECHANISM (72' BOOM):** As the "first" section is extended, it pulls out the "second" section by a system of twin .875" (22mm) dia. extend cables and 15.75" (400mm) P.D. metallic sheaves with roller bearings. The extend cables are connected to a bracket on top of the base section, pass around the sheaves which are pinned to the front end of the "first" section, and then connected to a bracket at the rear end of the "second" section to equalize the load on the "extend ropes". The design safety factor is 3.5 to 1. As the powered "first" section is retracted it simultaneously pulls the cable extended "second" section back into the "first" section. The twin retract cables are .50" (13mm) dia. and are connected to brackets on the top of the base section, pass around the 10.31" (262mm) P.D. sheaves with bronze bushings that are pinned inside the rear end of the "first" section, and then connected to a bracket that is mounted inside the rear end of the "second" section.

**CABLE EXTEND MECHANISM (OPTIONAL):** Designed for use where higher wire rope safety factors (than 3.5 to 1) and larger sheave diameter to rope diameter ratios are required. Extend cables are 1.0" (26mm) dia.; extend sheaves are 23.0" (584mm) P.D. with roller bearings; design safety factor is 6 to 1.

**25' (7.6M) LATTICE EXTENSION (OPTIONAL):** Swing-around tapered lattice structure with single 13.1" (332.7mm) P.D. metallic point sheave with bronze bushing. Easily installed from ground level by pivoting from stored position on right side of boom base and pin connecting with self-storing pins to boom point. Offset 2' from boom. For extending reach of boom.

**25'6" to 35'6" (7.8-10.8M) LATTICE EXTENSION (OPTIONAL):** Swing-around tapered lattice structure with welded four-plate telescopic section and single 13.1" (332.7mm) P.D. metallic point sheave with bronze bushing. Easily installed from ground level by pivoting from stored position on right side of boom base and pin connecting with self-storing pins to boom point. Section is then extended or retracted and pinned with self-storing pins. Offset 2' from boom. For extending reach of boom.

**EXTENSION OFFSET MECHANISM (OPTIONAL):** Pivoting link which allows lattice extension to be offset to 22° from main boom.

**JIB (OPTIONAL):** 14'-6" (4.4M) underslung "A" frame structure with single 14.17" (360mm) P.D. metallic point sheave with bronze bushing. Easily installed from ground level by pivoting from its stored position or underside of boom base. Pin and pendant connected to boom point. Offset at 0°, 10° and 20°. For extending reach of boom.

**AUXILIARY SHEAVE (OPTIONAL):** Single 13.1 (332.7mm) P.D. metallic sheave with bronze bushings, bracket-mounted on boom point. For use with single auxiliary winch line.

## HOOK BLOCKS (OPTIONAL):

5 Ton — (4.5 metric ton) weighted hook with swivel and safety latch, for ½" (13mm) wire rope.

10 Ton — (9.1 metric ton) single sheave with swivel hook and safety latch, for ½" (13mm) wire rope.

15 Ton — (13.6 metric ton) 2 sheave with swivel hook and safety latch, for ½" (13mm) wire rope.

22 Ton — (20 metric ton) 3 sheave with swivel hook and safety latch, for ½" (13mm) wire rope.

## COUNTERWEIGHTS:

For 62' boom w/o auxiliary hoist — 6,500 lbs. (2948 kg.)

w auxiliary hoist — 6,000 lbs. (2722 kg.)

For 72' boom w/o auxiliary hoist — 7,300 lbs. (3311 kg.)

w auxiliary hoist — 6,800 lbs. (3084 kg.)

## UPPERSTRUCTURE



**OPERATOR'S CAB:** All-weather environmental cab of steel has hinged tinted ceiling window, slide-by right side window, locking slide-by door and large windows with full view in all directions. Safety glass used throughout. Operator's three-way adjustable seat has torsion suspension. Cab is 33.5 inches (850mm) wide with a stand-up height of 56 inches (1422mm) and is cushion-mounted for vibration dampening and noise reduction.

**CAB EQUIPMENT (STANDARD):** Cab contains all loading and crane function controls. Front console includes gauges for engine water temperature, engine oil pressure, transmission clutch pressure, transmission oil temperature, hydraulic oil temperature, air pressure, and fuel. Also includes hour meter, voltmeter, winch high speed indicators, anti-two-block warning indicator and dash light.

**CAB ACCESSORIES (OPTIONAL):** Heater (diesel or propane fueled, thermostatically controlled), defroster fan, air conditioner, electric horn, electric windshield wiper and washer, electric roof window wiper, seat belt, fire extinguisher, drum rotation indicators for main and auxiliary winches, vandal-proof glass (lexan), rotary roof beacon, rear view mirrors and engine condition warning system.



**CONTROLS:** In front of operator are foot pedals, for boom hoist, swing brake, service brakes, and engine throttle. Left of steering wheel are console mounted double-acting levers for swing and telescope. At the right are levers for auxiliary winch (optional), main winch and boom hoist. Drum rotation indicators (optional) are mounted on auxiliary and main winch levers and an optional directional indicator (emergency flasher) switch on steering column. At operator's front console are mounted switches for optional starting aid, master ignition, engine start, optional windshield wiper, optional master lights. At operator's right are console mounted switches for emergency/parking brake, defroster (optional), hi-low transmission range, steering mode selection and outrigger controls, circular level, gear range selector switch, forward-reverse selector lever, hand throttle, swing brake lever, travel stabilizer switch and house lock lever. Console has prewired, removable modules for ease of service.



**MAIN WINCH:** P&H Model 1080 two speed, mounted on rear of upper frame. Planetary gearing with equal speed power raising and lowering. Infinitely variable controlled speed. Spring applied, hydraulically released load holding multiple disc brake is automatic. Complete with 425' (130m) wire rope.

Drum: 10.75" (273mm) P.D. X 16.5" (419mm) wide with 16.75" (425mm) dia. flanges.

Wire Rope: ½" (13mm) dia. 6 X 25 extra improved plow steel, with 7 X 7 I.W.R.C.

Optional: ½" (13mm) dia. 8 X 19 spin resistant extra improved plow steel, with 7 X 7 I.W.R.C.

Drum Capacity: 543 ft. (165m) 5 layers.

Line Pull (Max): 10,263 lb. (4,655 kg) 1st layer.

Line Pull (Permissible - Based on Strength of Wire Rope):  
7600 lbs. (3454 kg) 6 X 25 cable  
6680 lbs. (3036 kg) 8 X 19 spin resistant cable

Line Speed Up (Max): 404 fpm (123m/m) 5th layer.

**AUXILIARY WINCH (OPTIONAL):** Same as main winch. Mounted on rear of revolving frame. Complete with 360° (110m) wire rope and additional boom point idler sheave.



**BOOM HOIST:** One 9.84"(250mm) bore X 58.0" stroke cylinder, double-acting. Hydraulically powered raising and lowering with holding valve. Cylinder has internal accumulator providing a stabilizing "Easy Ride" when loading machines. Stabilizer is controlled from operator's cab. Boom hoist cylinder less "Easy Ride" is optional.

**BOOM TELESCOPE:** One 5.9"(150mm) I.D. cylinder — double acting for powered section. Hydraulically powered extending and retracting with holding valve.

**HYDRAULIC SYSTEM:** System utilizes two tandem gear type pumps. One tandem pump operating at 2650 rpm, provides 45 gpm (170 lpm) to the main and/or auxiliary winches and 45 gpm (170 lpm) to the boom hoist and boom telescope cylinders. A second tandem pump operating at 2650 rpm, provides 29 gpm (110 lpm) to the swing circuit and 29 gpm (110 lpm) for the steering, winch boost and outrigger circuits. Total flow at 2650 engine rpm is 148 gpm (560 lpm). From this flow, all but 44 gpm (167 lpm) is filtered to 10 microns on return to the reservoir. Maximum pressure drop of return filter with clean element and oil at normal operating temperature is 25% of bypass setting to assure minimum fluid resistance and power loss while protecting seals in cylinders, valves and motors.

The 90 gal.(340 liter) reservoir is located on left side of carrier. Pumps, valves, cylinders and motors are readily accessible and easy to service. Control valves are four-way, three position type with low effort spools and pilot-operated relief valves for quick, smooth response. Swing circuit has pressure compensated valve for swing metering control. Cable linkage connects valve to control levers. Hydraulic oil cooler is standard.



**SWING UNIT:** Hydraulic motor driving through gear reducer to pinion gear, 360° continuous rotation to 3.9 RPM.

**SWING GEAR:** External cut spur gear 39.667" (100.75 cm) P.D. Ring gear dust cover is available (optional).

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

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

**FASTENING TO LOWER:** Single row ball bearing integral with swing gear. Welded to carrier frame and bolted to rotating frame. Bearing is protected from dust by labyrinth seal.

**ROTARY MANIFOLD:** Sealed rotary swivel for air and hydraulic hose connections between rotating upper and carrier. Quickly removable from above or below for servicing. Electrical swivel is mounted on top of air and hydraulic swivel.

## CARRIER



**CARRIER:**  
4X4X4 (Four wheels drive. Four wheels steer)  
— For rough terrain with limited turning area.

**FRAME:** All-welded unitized construction assures rigidity and permanent alignment of swing bearing and rotating upper machinery. Fabricated of rectangular structural tubing main frame beams of high strength 45,500 psi (3200 kg/cm<sup>2</sup>) minimum yield steel and reinforced with rectangular box cross members of high strength 47,000 psi (3300 kg/cm<sup>2</sup>) minimum yield steel.

## SHEAVE AND DRUM TO WIRE ROPE RATIOS: (Pitch Diameter)

|                       | Sheave to Wire Rope | Drum to Wire Rope |
|-----------------------|---------------------|-------------------|
| Boom Main Sheave      | 23.8 to 1           | —                 |
| Boom Idler Sheave     | 23.8 to 1           | —                 |
| Boom Extension Sheave | 23.8 to 1           | —                 |
| Jib Sheave            | 23.8 to 1           | —                 |
| Main Winch            | —                   | 19.3 to 1         |
| Aux. Winch            | —                   | 19.3 to 1         |
| Cable Extend Sheave   | 18:1                | (Domestic)        |
| Cable Retract Sheave  | 23:1                |                   |
| Cable Extend Sheave   | 23:1                | (Export)          |



**HYDRAULIC OUTRIGGERS:** Four (4) independent assemblies that hydraulically extend out horizontally from carrier frame and down vertically to form a stable working platform. Four (4) double acting hydraulic cylinders provide independent horizontal beam movement and four (4) provide vertical rod movement. Vertical cylinders are equipped with holding valves. Cylinders are actuated by electric solenoid directional control valves operated from cab console switches. Beams are rectangular box members fabricated of high strength 79,600 psi (5600 kg/cm<sup>2</sup>) minimum yield steel. Four (4) fabricated 14" (35.6cm) sq. floats are removable and stored on frame. Extended spread is 18'-0" (5.4m) from C/L to C/L of vertical cylinders. Retracted within carrier width of 8'-0" (2.44m).



**STEERING OPTIONS:** A) Front axle steer — pressure compensated hydrostatic power system fully controlled by steering wheel B) Front and rear axle steer — pressure compensated hydrostatic power system fully controlled by steering wheel for front and rear axles.

Two wheel, four wheel and crab steering mode selection is controlled by 3 position sealed switch located in cab on side console. Center position of switch locks position of rear wheels and only front wheels are steerable. The amount of rear wheel turn is controlled by steering wheel.

**FRONT AXLE:** Steer and drive or non-drive axle driven through differential with planetary in hubs. Axle is rigid mounted with power steering.

**REAR AXLE:** Steer and drive axle driven through differential with planetary in hubs. Power steering, with optional no-spin differential. Axle is pivot-mounted with automatic hydraulic lockout cylinders to prevent oscillation (vertical movement of axle). Total oscillation attainable is 8 in. (20.3cm).

**SERVICE BRAKES:** Air over hydraulic brakes on all 4 wheels, internal expanding shoe type, actuated by foot pedal in cab.

**PARKING BRAKE:** Spring-set air chamber on drum brake on output yoke of transmission. Spring set and air release.

**TIRES:** Standard — 16:00X24-16 PR tubeless (G-2)  
Optional — 14:00X24-20 PR tube type (ML-3)  
16:00X25-24 PR tubeless (E-3)  
17:50X25-20 PR tubeless (L-2)  
20.5X25-20 PR tubeless, wide base (E-2)  
20.5X25-20 PR tubeless, wide base (E-3)

**MISCELLANEOUS EQUIPMENT (STANDARD):** Sliding engine hood, tow lugs, hydraulic pump disconnect, automatic moisture ejector for air system, oil to air transmission cooler, front axle disconnect and oil to air hydraulic oil cooler.

**MISCELLANEOUS EQUIPMENT (OPTIONAL):** Sheet metal cover for control valves, boom angle indicator, boom length indicator, load moment device, engine starting aid, fenders, pintle hooks, optional spare wheel and tire, rear steer centering indicator, tire inflation kit, axle lockout with override, storage compartment, cable spooling device, tachometer, speedometer, headlights, taillights, directional lights, emergency flashers, floodlights, large rear view mirrors, alcohol evaporator, air dryer, plumbing and controls for aux. winch, front bumper tow winch, electric back-up alarm, engine condition warning system and sound reduction package.

**POWER PLANT:**

| ENGINE:          | STANDARD       | OPTIONAL       |
|------------------|----------------|----------------|
| Make             | Detroit Diesel | Cummins        |
| Model            | V-8.2L         | 6BT5.9         |
| Type             | Diesel         | Diesel         |
| No. of Cylinders | 8              | 6              |
| BoreXStroke      |                |                |
| In.              | 4.25X4.41      | 4.02X4.72      |
| mm               | 108X112        | 102X120        |
| Displacement,    |                |                |
| In. <sup>3</sup> | 500            | 359            |
| Liters           | 8.2            | 5.88           |
| Cycles           | Four           | Four           |
| Air Induction    | Nat. Aspirated | Turbocharged   |
| Starting         | 24 volt motor  | 24 volt motor  |
|                  | negative       | negative       |
|                  | ground         | ground         |
| Charging         | 24 volt        | 24 volt        |
|                  | alternator,    | alternator,    |
|                  | 35 amp         | 35 amp         |
| Compressor,      | 12 CFM @       | 9.5 CFM @      |
| air              | 1250 RPM       | 1250 RPM       |
| Governor, air    | 100-120 PSI    | 100-120 PSI    |
| Fan              | 6 Blade        | 6 Blade        |
|                  | suction type   | suction type   |
|                  | 22 in. (559mm) | 22 in. (559mm) |

**RATINGS:****Gross HP @**

|           |             |            |
|-----------|-------------|------------|
| RPM       | 128 @ 2650  | 130 @ 2650 |
| Kilowatts | 95.5 @ 2650 | 97 @ 2650  |

**TRANSMISSION:** STANDARD

## OPTIONAL

Powershift with high/low range. Fully electric gear shift, 6 speeds equal forward and reverse, with high-low, electric controlled air range shift. Electrically controlled, air generated front axle disconnect for highway travel.

Sequential Powershift 6 speeds forward, 3 speeds reverse, electrically controlled and operated gear shift. Neutral safety start. Electrically controlled hydraulically operated front axle disconnect for highway travel.

**ACCESSORIES:**

|                   |                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cooling           | Liquid recirculating, bypass, pressurized.                                                                                                                                                                        |
| Radiator          | Tube and fin type, thermostat controlled, with sealed baffle, rapid warm-up.                                                                                                                                      |
| Starting          | Cold weather starting aid (measured shot) required below 30° F (-1 C).                                                                                                                                            |
| Electrical System | System is 24 volt, negative ground. Wire harnesses have protective braided nylon covering and are individually clamped to framework. Environmentally-sealed toggle-type switches and harness connectors are used. |
| Battery           | Reserve capacity 239 minutes. Cold cranking amps at 0° F - 669 amps.                                                                                                                                              |
| Fuel Tank         | 52.8 gal. Meets FHWA requirements, (right side between tires).                                                                                                                                                    |
| Air Cleaner       | Single stage dry — replaceable element.                                                                                                                                                                           |
| Lube Oil Filter   | Replaceable element. Full-flow.                                                                                                                                                                                   |
| Fuel Filter       | Spin-on Replaceable element.                                                                                                                                                                                      |



**PERFORMANCE:** Standard Power shift transmission — six (6) forward speeds, 6 reverse speeds. Performance in highest and lowest gear based on engine at full load rpm, 43,387 lb. gross vehicle weight, 16:00 X 24 tires, 62' boom, 6500 lb. counterweight and good surface road Maximum grade at 1 mph is approximately 53%.

**Low Range Speeds**

|     |                      |
|-----|----------------------|
| 1st | 3.4 mph (5.4 Km/h)   |
| 2nd | 7.3 mph (11.7 Km/h)  |
| 3rd | 13.9 mph (22.4 Km/h) |

**High Range Speeds**

|     |                      |
|-----|----------------------|
| 1st | 7.6 mph (12.2 Km/h)  |
| 2nd | 16.1 mph (25.9 Km/h) |
| 3rd | 28.9 mph (46.6 Km/h) |

# weights

**1. STANDARD BASIC MACHINE INCLUDES:**

- A. BASIC CARRIER WITH HYD. OUTRIGGERS, SLEWING RIM, FULL FUEL AND HYD. TANKS AND SHEETMETAL INCLUDING SLIDING ENGINE HOOD FRONT COVERS & FENDERS
- B. BASIC UPPER WITH CAB AND CONTROL INSTALLATIONS, SINGLE POSITION HOUSE LOCK, BASIC ANTI 2-BLOCK, SEAT, AND SWIVEL INSTALLATION.
- C. STANDARD OPTIONS AS FOLLOWS.

- 1. 62 FT. CABLE EXTEND BOOM INST. WITH 28 TON (4 SHEAVE NO JIB) SHEAVE INSTALLATION.
- 2. 6500 LB. COUNTERWEIGHT INSTALLATION 62 FT. BOOM W/O AUX. WINCH).
- 3. MAIN WINCH INSTALLATION.
- 4. MAIN WINCH ROPE (50 DIA. - 425 FT.)
- 5. 8.2 L ENGINE WITH RANGE/SHIFT TRANSMISSION.
- 6. 4 x 4 STANDARD PLANETARY AXLES.
- 7. 16:00 x 24 E-2 TIRES
- 8. UPPER VALVE COVER INSTALLATION
- 9. FENDER INSTALLATION
- 10. AXLE LOCKOUT INSTALLATION
- 11. ROADING STABILIZER INSTALLATION

**2. ADJUSTMENTS FOR OPTIONS:**

- A. IF AN OPTIONAL ITEM HAS BEEN SELECTED IN PLACE OF A STANDARD OPTION, THE WEIGHT ADJUSTMENT IS THE DIFFERENCE BETWEEN THE TWO ITEMS. THE WEIGHT ADJUSTMENT IS ADDED OR SUBTRACTED FROM THE STANDARD BASIC MACHINE WEIGHT AS INDICATED BY THE SIGN (+) OR (-).

**3. ADDITIONS FOR OPTIONS:**

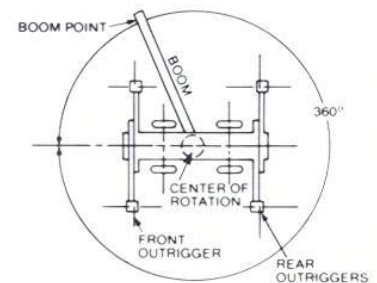
- A. IF AN OPTIONAL ITEM SELECTED IS AN ADDITION ITEM ON THE MACHINE (NOT REPLACING A STANDARD OPTION), THEN THE WEIGHT ADJUSTMENT IS THE TOTAL WEIGHT OF THE OPTION, AND IS ADDED TO THE STANDARD BASIC MACHINE WEIGHT AS PREVIOUSLY INDICATED.

# VEHICLE WEIGHTS:

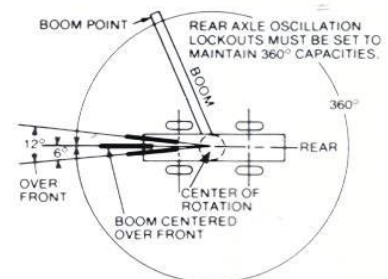
|                                   | POUNDS        |               |               | KILOGRAMS     |              |               |
|-----------------------------------|---------------|---------------|---------------|---------------|--------------|---------------|
|                                   | GROSS         | FRONT         | REAR          | GROSS         | FRONT        | REAR          |
| BASIC CARRIER                     | 13,050        | 6,325         | 6,725         | 5,925         | 2,872        | 3,053         |
| BASIC UPPER                       | 5,132         | 1,977         | 3,155         | 2,330         | 897          | 1,433         |
| STANDARD OPTIONS:                 |               |               |               |               |              |               |
| 62 FT. BOOM INST.                 | 8,072         | 9,522         | -1,450        | 3,665         | 4,323        | -658          |
| LOADING STABILIZER INST.          | 1,201         | 712           | 489           | 545           | 323          | 222           |
| 6500 LB. COUNTERWEIGHT INST.      | 6,501         | -2,709        | 9,210         | 2,952         | -1,230       | 4,182         |
| MAIN WINCH INST.                  | 614           | -89           | 703           | 279           | -40          | 319           |
| MAIN WINCH ROPE                   | 196           | -47           | 243           | 89            | -21          | 110           |
| VALVE COVER INST.                 | 97            | 47            | 50            | 44            | 21           | 23            |
| FENDER INST.                      | 470           | 235           | 235           | 214           | 107          | 107           |
| DDA 8.2L ENG. W/R-SHIFT TRANS.    | 2,852         | 130           | 2,722         | 1,295         | 59           | 1,236         |
| 16.00 X 24 E-2 TIRE INST.         | 2,092         | 1,046         | 1,046         | 950           | 475          | 475           |
| FRONT AXLE INST. (STD.)           | 1,612         | 1,616         | -4            | 732           | 734          | -2            |
| REAR AXLE INST. (STD.)            | 2,183         | -37           | 2,220         | 991           | -17          | 1,008         |
| AXLE LOCKOUT INSTALLATION         | 15            | 4             | 11            | 7             | 2            | 5             |
| <b>BASIC MACHINE</b>              | <b>44,087</b> | <b>18,732</b> | <b>25,355</b> | <b>20,018</b> | <b>8,505</b> | <b>11,513</b> |
| ADJUSTMENT FOR OPTIONS:           |               |               |               |               |              |               |
| BOOM OPTIONS: (US & EUR. BOOMS)   |               |               |               |               |              |               |
| 72 FT. BOOM INST.                 | 981           | 2,686         | -1,887        | 445           | 1,302        | -857          |
| STD. HOIST CYL. INST.             | -172          | -95           | -77           | -78           | -43          | -35           |
| POWER PLANT OPTIONS:              |               |               |               |               |              |               |
| DDA 8.2L ENG. W/P-SHIFT TRANS.    | 87            | 17            | 70            | 40            | 8            | 32            |
| 6BT5.9 W/R-SHIFT TRANS.           | -420          | -5            | -415          | -191          | -3           | -188          |
| 6BT5.9 W/P-SHIFT TRANS.           | -318          | 17            | -335          | -145          | 7            | -152          |
| 6D14T W/R-SHIFT TRANS.            | -109          | -55           | -54           | -50           | -25          | -25           |
| 6D14T W/P-SHIFT TRANS.            | -30           | -28           | -2            | -14           | -13          | -1            |
| REAR AXLE INST. (NO-SPIN)         | 20            | 0             | 20            | 9             | 0            | 9             |
| TIRE OPTIONS:                     |               |               |               |               |              |               |
| 14.00 X 24 TIRE INST.             | -158          | -79           | -79           | -72           | -36          | -36           |
| 16.00 X 25 TIRE INST.             | 1,186         | 593           | 593           | 538           | 269          | 269           |
| 20.5 X 25 E-2 TIRE INST.          | 1,476         | 738           | 738           | 670           | 335          | 335           |
| 20.5 X 25 E-3 TIRE INST.          | 1,844         | 922           | 922           | 836           | 418          | 418           |
| MAIN & AUX WINCH INST. (W/O ROPE) | 560           | -180          | 740           | 254           | -82          | 336           |
| STORAGE BOX INST.                 | 75            | 87            | -12           | 34            | 40           | -6            |
| COUNTERWEIGHTS:                   |               |               |               |               |              |               |
| 6000 LB. CWGT. FOR-               | -500          | 208           | -708          | -227          | 95           | -322          |
| 62 FT. BOOM WITH AUX. WINCH       |               |               |               |               |              |               |
| 6800 LB. CWGT. INST. FOR-         | 300           | -125          | 425           | 136           | -57          | 193           |
| 72 FT. BOOM WITH AUX. WINCH       |               |               |               |               |              |               |
| 7300 LB. CWGT. INST. FOR-         | 800           | -333          | 1,133         | 363           | -151         | 514           |
| 72 FT. BOOM WITHOUT AUX. WINCH    |               |               |               |               |              |               |
| ADDITIONS FOR OPTIONS:            |               |               |               |               |              |               |
| FRONT MOUNT WINCH INST.           | 338           | 534           | -196          | 154           | 242          | -88           |
| FLOODLIGHT INST.                  | 36            | 37            | -1            | 16            | 17           | -1            |
| PINTLE HOOK INST. (FRONT)         | 34            | 52            | -18           | 15            | 23           | -8            |
| PINTLE HOOK INST. (REAR)          | 34            | -18           | 52            | 15            | -8           | 23            |
| DIESEL HEATER INST.               | 44            | 9             | 35            | 20            | 4            | 16            |
| PROPANE HEATER INST.              | 52            | 10            | 42            | 23            | 4            | 19            |
| AIR DRIER INST.                   | 23            | -7            | 30            | 10            | -3           | 13            |
| AUX WINCH ROPE (360' .50 DIA)     | 166           | -73           | 239           | 75            | -33          | 108           |
| 72 FOOT BOOM ATTACHMENTS          |               |               |               |               |              |               |
| AUX. SHEAVE INST.                 | 91            | 277           | -186          | 41            | 126          | -85           |
| 25 FT. EXTENSION INST.            | 816           | 1,321         | -505          | 370           | 600          | -230          |
| 25-35 FT. EXTENSION INST.         | 1,214         | 1,739         | -525          | 551           | 790          | -239          |
| A-FRAME JIB                       | 546           | 1,144         | -600          | 248           | 519          | -271          |
| 10 TON 1SHEAVE                    | 325           | 953           | -628          | 148           | 433          | -285          |
| 15 TON 2SHEAVE                    | 336           | 986           | -650          | 153           | 447          | -294          |
| 22 TON 3SHEAVE                    | 354           | 1,038         | -684          | 161           | 471          | -310          |
| 5 TON HOOK                        | 121           | 361           | -240          | 55            | 164          | -109          |
| 62 FOOT BOOM ATTACHMENTS          |               |               |               |               |              |               |
| AUX. SHEAVE INST.                 | 91            | 241           | -150          | 41            | 109          | -68           |
| 25 FT. EXTENSION INST.            | 816           | 994           | -178          | 370           | 452          | -82           |
| 25-35 FT. EXTENSION INST.         | 1,214         | 1,253         | -39           | 551           | 569          | -18           |
| A-FRAME JIB                       | 546           | 926           | -380          | 248           | 420          | -172          |
| 10 TON 1SHEAVE                    | 325           | 823           | -498          | 148           | 374          | -226          |
| 15 TON 2SHEAVE                    | 336           | 851           | -515          | 153           | 386          | -233          |
| 22 TON 3SHEAVE                    | 354           | 897           | -543          | 161           | 407          | -246          |
| 5 TON HOOK                        | 121           | 313           | -192          | 55            | 142          | -87           |

## areas of operation

### ON OUTRIGGERS



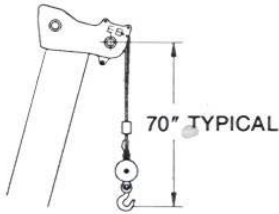
### ON TIRES



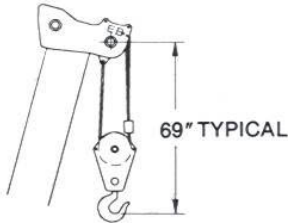
3105J67

# 62 foot — three section powered boom

rated crane loads in pounds —



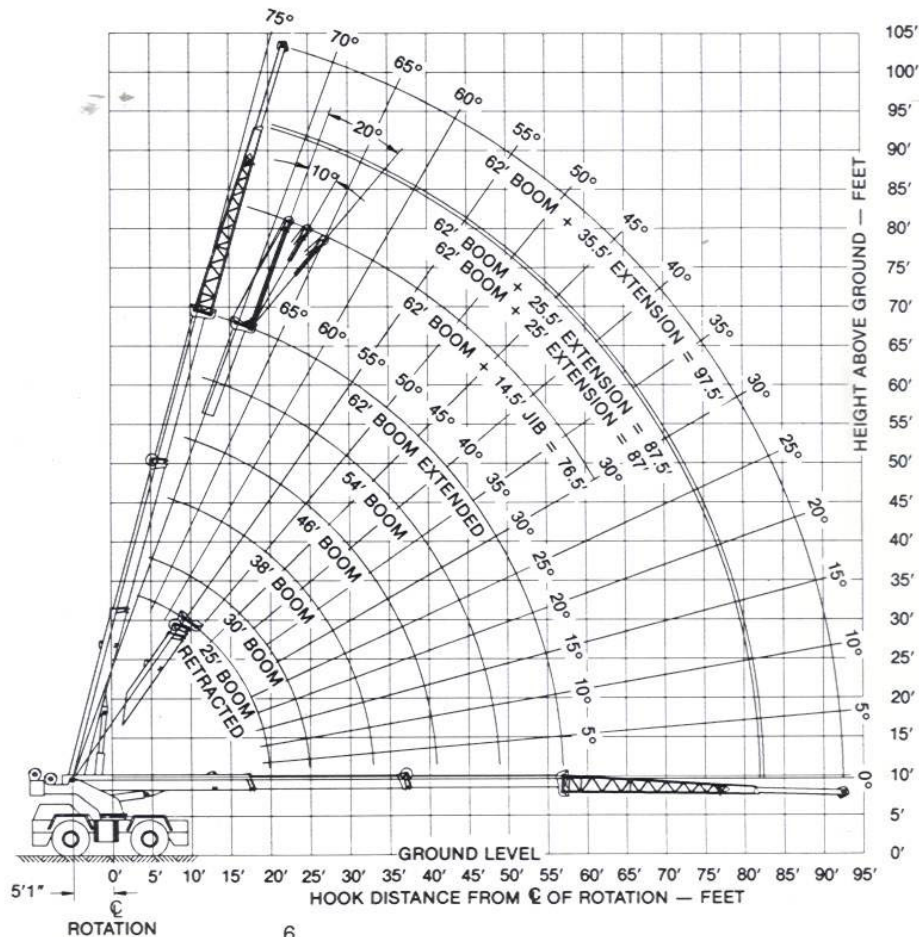
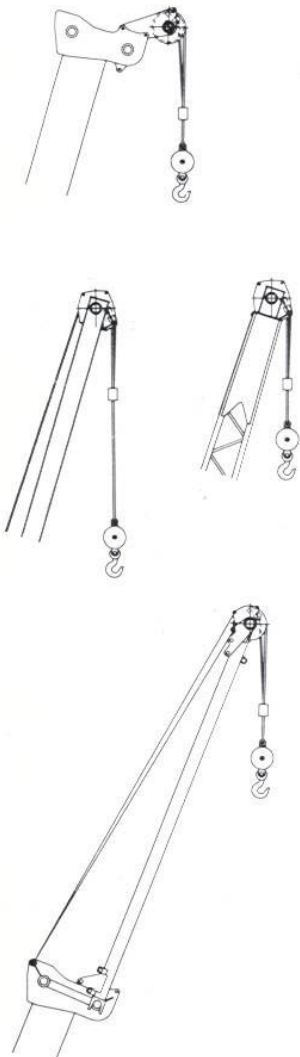
DIMENSIONS TYPICAL FOR ALL ATTACHMENTS



| OPERATING RADIUS<br>F.T. | POWERED BOOM LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED |                |                |                |                |                |    |       |    |       | OPERATING RADIUS<br>F.T. |       |    |
|--------------------------|--------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----|-------|----|-------|--------------------------|-------|----|
|                          | POWERED BOOM LENGTH                                          |                |                |                |                |                |    |       |    |       |                          |       |    |
|                          | 25 FT.<br>360°                                               | 30 FT.<br>360° | 38 FT.<br>360° | 46 FT.<br>360° | 54 FT.<br>360° | 62 FT.<br>360° |    |       |    |       |                          |       |    |
| 10                       | 57                                                           | 44000          | 64             | 41400          | 70             | 38700          | 74 | 38000 |    |       |                          | 10    |    |
| 12                       | 52                                                           | 40300          | 59             | 40300          | 67             | 38300          | 72 | 36300 |    |       |                          | 12    |    |
| 15                       | 41                                                           | 33500          | 52             | 33500          | 62             | 33300          | 67 | 31500 | 72 | 30000 | 74                       | 28500 | 15 |
| 20                       |                                                              |                | 37             | 24900          | 52             | 24900          | 60 | 24900 | 66 | 24600 | 70                       | 23400 | 20 |
| 25                       |                                                              |                |                |                | 41             | 19200          | 53 | 19200 | 60 | 19200 | 64                       | 19200 | 25 |
| 30                       |                                                              |                |                |                | 26             | 15000          | 44 | 15000 | 53 | 15000 | 59                       | 15000 | 30 |
| 35                       |                                                              |                |                |                |                |                | 33 | 11500 | 45 | 11500 | 53                       | 11500 | 35 |
| 40                       |                                                              |                |                |                |                |                | 14 | 9100  | 37 | 9100  | 47                       | 9100  | 40 |
| 45                       |                                                              |                |                |                |                |                |    |       | 25 | 7400  | 39                       | 7400  | 45 |
| 50                       |                                                              |                |                |                |                |                |    |       |    |       | 30                       | 6100  | 50 |
| 55                       |                                                              |                |                |                |                |                |    |       |    |       | 17                       | 5100  | 55 |
| 60                       |                                                              |                |                |                |                |                |    |       |    |       |                          |       | 60 |
| 65                       |                                                              |                |                |                |                |                |    |       |    |       |                          |       | 65 |

## INFORMATION:

1. CRANE LOAD RATINGS DO NOT EXCEED 85% OF TIPPING.
2. RATINGS ABOVE THE HEAVY LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.
3. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED LATTICE 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.
4. CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS FULLY EXTENDED AND SET TO A DISTANCE OF 9 FEET FROM THE LONGITUDINAL AXIS OF THE CARRIER TO THE OUTRIGGER FLOAT PIVOT CONNECTION WITH ALL LOAD REMOVED FROM CARRIER WHEELS.

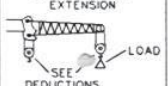
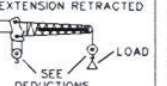
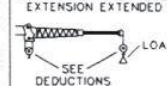


"with outriggers fully extended and set"

PCSA CLASS 10-91

boom in 360° work areas

OMEGA 122-22 TON

| LATTICE EXTENSION LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED                  |                                                                                   |                      |  |                        |                                                                                   |                      |  |                        |                                                                                   |                      |  |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------|--|------------------------|-----------------------------------------------------------------------------------|----------------------|--|------------------------|-----------------------------------------------------------------------------------|----------------------|--|
| OPERATING RADIUS                                                                   | 25 FT. LATTICE EXTENSION                                                          |                      |  | OPERATING RADIUS       | 25.5-35.5 FT. LATTICE EXTENSION RETRACTED                                         |                      |  | OPERATING RADIUS       | 25.5-35.5 FT. LATTICE EXTENSION EXTENDED                                          |                      |  |
|                                                                                    |  |                      |  |                        |  |                      |  |                        |  |                      |  |
|                                                                                    | FOR ALL BOOM LENGTHS UP TO 87 FT.                                                 |                      |  |                        | FOR ALL BOOM LENGTHS UP TO 87.5 FT.                                               |                      |  |                        | FOR ALL BOOM LENGTHS UP TO 97.5 FT.                                               |                      |  |
| FOR 87 FT. BOOM ONLY                                                               |  | RATED LOAD IN POUNDS |  | FOR 87.5 FT. BOOM ONLY |  | RATED LOAD IN POUNDS |  | FOR 97.5 FT. BOOM ONLY |  | RATED LOAD IN POUNDS |  |
|                                                                                    |                                                                                   | 360°                 |  |                        |                                                                                   | 360°                 |  |                        |                                                                                   | 360°                 |  |
| 25                                                                                 | 73                                                                                | 13000                |  | 25                     | 73                                                                                | 13000                |  | 25                     |                                                                                   |                      |  |
| 30                                                                                 | 70                                                                                | 12400                |  | 30                     | 70                                                                                | 12000                |  | 30                     | 73                                                                                | 9000                 |  |
| 35                                                                                 | 66                                                                                | 11100                |  | 35                     | 66                                                                                | 10700                |  | 35                     | 70                                                                                | 8500                 |  |
| 40                                                                                 | 62                                                                                | 9700                 |  | 40                     | 63                                                                                | 9500                 |  | 40                     | 66                                                                                | 8000                 |  |
| 45                                                                                 | 58                                                                                | 8000                 |  | 45                     | 59                                                                                | 7700                 |  | 45                     | 63                                                                                | 7500                 |  |
| 50                                                                                 | 54                                                                                | 6700                 |  | 50                     | 55                                                                                | 6400                 |  | 50                     | 60                                                                                | 6800                 |  |
| 55                                                                                 | 50                                                                                | 5700                 |  | 55                     | 50                                                                                | 5400                 |  | 55                     | 56                                                                                | 5700                 |  |
| 60                                                                                 | 45                                                                                | 4900                 |  | 60                     | 45                                                                                | 4600                 |  | 60                     | 52                                                                                | 4900                 |  |
| 65                                                                                 | 40                                                                                | 4200                 |  | 65                     | 40                                                                                | 3900                 |  | 65                     | 48                                                                                | 4200                 |  |
| 70                                                                                 | 34                                                                                | 3600                 |  | 70                     | 34                                                                                | 3300                 |  | 70                     | 44                                                                                | 3700                 |  |
| 75                                                                                 | 26                                                                                | 3100                 |  | 75                     | 27                                                                                | 2800                 |  | 75                     | 39                                                                                | 3200                 |  |
| 80                                                                                 | 15                                                                                | 2700                 |  | 80                     | 17                                                                                | 2400                 |  | 80                     | 33                                                                                | 2800                 |  |
| 85                                                                                 |                                                                                   |                      |  | 85                     |                                                                                   |                      |  | 85                     | 26                                                                                | 2400                 |  |
| 90                                                                                 |                                                                                   |                      |  | 90                     |                                                                                   |                      |  | 90                     | 17                                                                                | 2100                 |  |
| NOTE:                                                                              |                                                                                   |                      |  |                        |                                                                                   |                      |  |                        | 95                                                                                |                      |  |
| 1. WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES TO DETERMINE LOAD RATING. |                                                                                   |                      |  |                        |                                                                                   |                      |  |                        | 100                                                                               |                      |  |
| 2. FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.                 |                                                                                   |                      |  |                        |                                                                                   |                      |  |                        |                                                                                   |                      |  |

| MAXIMUM JIB LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED |           |       |      |
|-------------------------------------------------------------|-----------|-------|------|
| MIN. BOOM ANGLE                                             | JIB ANGLE |       |      |
|                                                             | 0°        | 10°   | 20°  |
| 75°                                                         | 13000     | 11500 | 9700 |
| 70°                                                         | 12500     | 10700 | 8600 |
| 65°                                                         | 11500     | 9800  | 7900 |
| 60°                                                         | 9900      | 8900  | 7400 |
| 55°                                                         | 7900      | 7500  | 6900 |
| 50°                                                         | 6500      | 6200  | 6000 |
| 45°                                                         | 5500      | 5300  | 5200 |
| 40°                                                         | 4800      | 4700  | 4600 |
| 35°                                                         | 4200      | 4100  | 4100 |
| 30°                                                         | 3800      | 3800  | 3700 |

#### JIB CAPACITY NOTES:

- JIB LOAD RATINGS ABOVE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE OF THE MACHINE. RATINGS BELOW LINE ARE BASED ON STABILITY OF THE MACHINE AND DO NOT EXCEED 85% OF TIPPING LOAD WITH FULLY EXTENDED OUTRIGGERS. USE OF OUTRIGGERS IS REQUIRED WHEN BOOM IS EQUIPPED WITH JIB.
- FOR BUCKET RATINGS ON JIB, DEDUCT 20% FROM MAXIMUM JIB LOAD RATINGS.
- WARNING: DO NOT LIFT WITH JIB AT BOOM ANGLES BELOW 30°. LOSS OF STABILITY OCCURS RAPIDLY.

| MAIN & AUXILIARY HOIST REEVING 6 X 25            |      |       |       |       |       |       |       |   |   |
|--------------------------------------------------|------|-------|-------|-------|-------|-------|-------|---|---|
| 1/2 DIA. WIRE ROPE BREAKING STRENGTH 26,600 LBS. |      |       |       |       |       |       |       |   |   |
| PART OF LINE                                     | 1    | 2     | 3     | 4     | 5     | 6     | 7     | 8 | 9 |
| MAXIMUM LOAD                                     | 7600 | 15200 | 22800 | 30400 | 38000 | 44000 |       |   |   |
| MAIN & AUXILIARY HOIST REEVING 8 X 19            |      |       |       |       |       |       |       |   |   |
| 1/2 DIA. WIRE ROPE BREAKING STRENGTH 23,400 LBS. |      |       |       |       |       |       |       |   |   |
| PART OF LINE                                     | 1    | 2     | 3     | 4     | 5     | 6     | 7     | 8 | 9 |
| MAXIMUM LOAD                                     | 6680 | 13350 | 20000 | 26700 | 33400 | 40000 | 44000 |   |   |

#### 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 OR JIB 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.

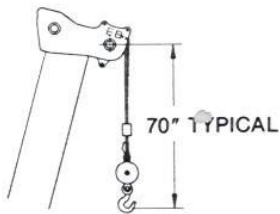
#### DEFINITIONS:

- 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 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.

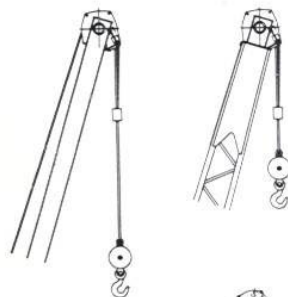
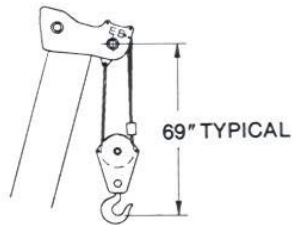
| DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS |                            |                                  |                                  |           |                             |                                 |
|---------------------------------------------------|----------------------------|----------------------------------|----------------------------------|-----------|-----------------------------|---------------------------------|
| DESCRIPTION                                       |                            | WITHOUT HOOK BLOCK ON BOOM POINT | HOOK BLOCK ON POWERED BOOM POINT |           |                             |                                 |
|                                                   |                            |                                  | 5 TON                            | 10-22 TON | 5 TON WITH AUXILIARY SHEAVE | 10-22 TON WITH AUXILIARY SHEAVE |
| HOISTING LOAD FROM POWERED BOOM                   | 25 FT. LATTICE EXTENSION   | HOOK BLOCK WEIGHT                | 150                              | 350       | 250                         | 450                             |
|                                                   |                            | STOWED                           | 150                              | 350       | 250                         | 450                             |
|                                                   |                            | ERECTED ONLY                     | 1350                             | 1550      | 1450                        | 1650                            |
|                                                   | 25.5 FT. LATTICE EXTENSION | 5 TON BLOCK                      | 1650                             | 1850      | 1750                        | 1950                            |
|                                                   |                            | 10 TON BLOCK                     | 2100                             | 2300      | 2200                        | 2400                            |
|                                                   |                            | STOWED                           | 150                              | 350       | 250                         | 450                             |
|                                                   | 35.5 FT. LATTICE EXTENSION | ERECTED ONLY                     | 2050                             | 2250      | 2150                        | 2350                            |
|                                                   |                            | 5 TON BLOCK                      | 2350                             | 2550      | 2450                        | 2650                            |
|                                                   |                            | 10 TON BLOCK                     | 2800                             | 3000      | 2900                        | 3100                            |
|                                                   | 14.5 FT. JIB               | STOWED                           | 250                              | 450       | 350                         | 550                             |
|                                                   |                            | ERECTED ONLY                     | 850                              | 1050      | 950                         | 1150                            |
|                                                   |                            | 5 TON BLOCK                      | 1050                             | 1250      | 1150                        | 1350                            |
| HOISTING LOAD FROM EXTENSION OR JIB               | 25 FT. LATTICE EXTENSION   | 10 TON BLOCK                     | 1400                             | 1600      | 1500                        | 1700                            |
|                                                   | 25.5 FT. LATTICE EXTENSION | 5 TON BLOCK                      | 150                              | 250       | 300                         | 400                             |
|                                                   |                            | 10 TON BLOCK                     | 350                              | 450       | 500                         | 600                             |
|                                                   | 35.5 FT. LATTICE EXTENSION | 5 TON BLOCK                      | 150                              | 250       | 300                         | 400                             |
|                                                   |                            | 10 TON BLOCK                     | 350                              | 450       | 500                         | 600                             |
|                                                   | 14.5 FT. JIB               | 5 TON BLOCK                      | 150                              | 250       | 300                         | 400                             |
|                                                   |                            | 10 TON BLOCK                     | 350                              | 450       | 500                         | 600                             |
|                                                   |                            | 5 TON BLOCK                      | 150                              | 250       | 300                         | 400                             |
|                                                   |                            | 10 TON BLOCK                     | 350                              | 450       | 500                         | 600                             |
|                                                   |                            | 5 TON BLOCK                      | 150                              | 250       | 300                         | 400                             |
|                                                   |                            | 10 TON BLOCK                     | 350                              | 450       | 500                         | 600                             |
|                                                   |                            | 5 TON BLOCK                      | 150                              | 250       | 300                         | 400                             |

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

# 72 foot — three section powered boom rated crane loads in pounds —



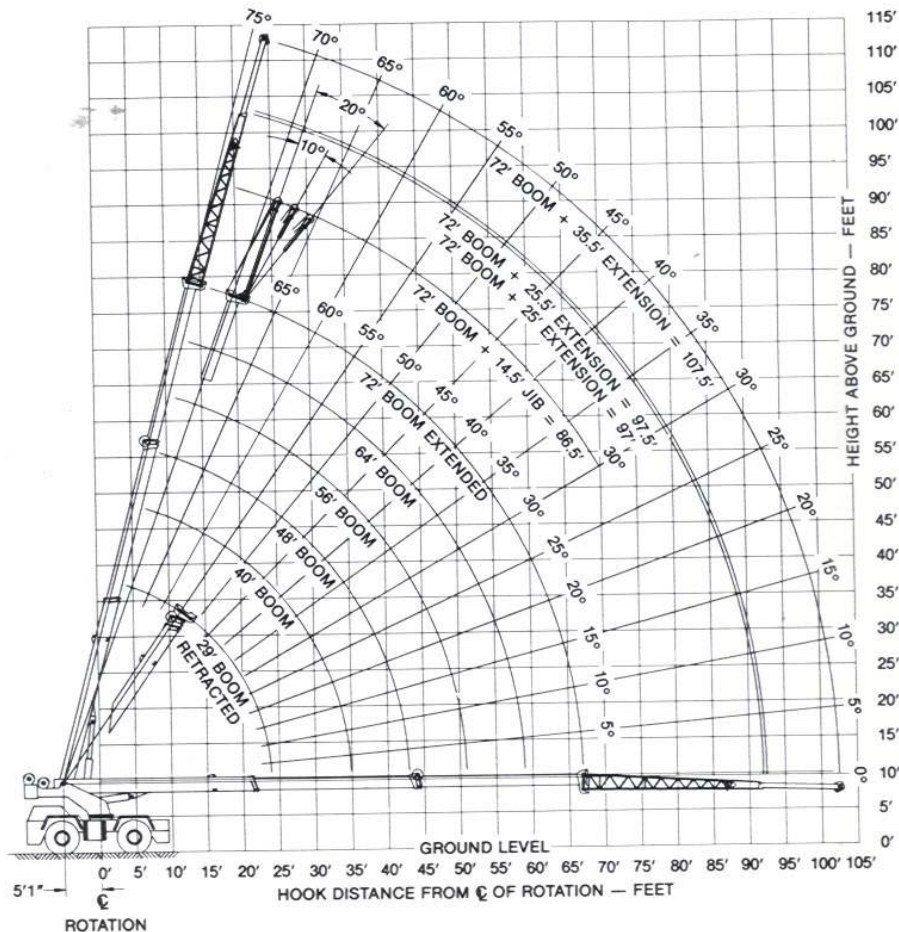
DIMENSIONS TYPICAL FOR ALL ATTACHMENTS



| POWERED BOOM LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED |                     |                |                |                |                |                |                |  |  |  |                      |
|--------------------------------------------------------------|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|--|--|--|----------------------|
| OPERATING RADIUS FT.                                         | POWERED BOOM LENGTH |                |                |                |                |                |                |  |  |  | OPERATING RADIUS FT. |
|                                                              | 29 FT.<br>360°      | 40 FT.<br>360° | 48 FT.<br>360° | 56 FT.<br>360° | 64 FT.<br>360° | 72 FT.<br>360° | SEE DEDUCTIONS |  |  |  |                      |
| 10                                                           | 63 44000            | 71 38100       | 75 37400       |                |                |                |                |  |  |  | 10                   |
| 12                                                           | 58 40000            | 68 37500       | 72 35600       |                |                |                |                |  |  |  | 12                   |
| 15                                                           | 51 33400            | 63 32600       | 68 30800       | 72 29400       | 75 27900       |                |                |  |  |  | 15                   |
| 20                                                           | 34 24900            | 55 24900       | 62 24900       | 67 24100       | 70 23000       | 73 21700       |                |  |  |  | 20                   |
| 25                                                           |                     | 45 19200       | 54 19200       | 61 19200       | 65 19200       | 69 18400       |                |  |  |  | 25                   |
| 30                                                           |                     | 32 15400       | 46 15400       | 54 15400       | 60 15400       | 64 15400       |                |  |  |  | 30                   |
| 35                                                           |                     |                | 37 11900       | 47 11900       | 54 11900       | 60 11900       |                |  |  |  | 35                   |
| 40                                                           |                     |                | 23 9300        | 39 9300        | 48 9300        | 54 9300        |                |  |  |  | 40                   |
| 45                                                           |                     |                |                | 30 7500        | 42 7500        | 49 7500        |                |  |  |  | 45                   |
| 50                                                           |                     |                |                | 13 6100        | 34 6100        | 43 6100        |                |  |  |  | 50                   |
| 55                                                           |                     |                |                |                | 23 5100        | 36 5100        |                |  |  |  | 55                   |
| 60                                                           |                     |                |                |                |                | 28 4200        |                |  |  |  | 60                   |
| 65                                                           |                     |                |                |                |                | 16 3500        |                |  |  |  | 65                   |

## INFORMATION:

1. CRANE LOAD RATINGS DO NOT EXCEED 85% OF TIPPING.
2. RATINGS ABOVE THE HEAVY LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.
3. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED LATTICE 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.
4. CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS FULLY EXTENDED AND SET TO A DISTANCE OF 9 FEET FROM THE LONGITUDINAL AXIS OF THE CARRIER TO THE OUTRIGGER FLOAT PIVOT CONNECTION WITH ALL LOAD REMOVED FROM CARRIER WHEELS.

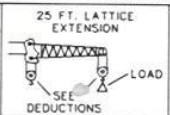
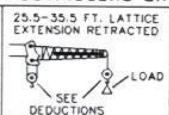
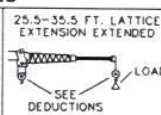


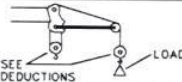
"with outriggers fully extended and set"

PCSA CLASS 10 - 93

boom in 360° work areas

OMEGA 122 - 22 TON

| LATTICE EXTENSION LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED                                                                                                 |                                                                                                                                 |                                                                                   |                            |                                                                                                                                                  |                        |                            |                                                                                                                                                 |                      |                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|
| OPERATING RADIUS<br>IN FT.                                                                                                                                        | <br>25 FT. LATTICE EXTENSION<br>SEE DEDUCTIONS |                                                                                   | OPERATING RADIUS<br>IN FT. | <br>25.5-35.5 FT. LATTICE EXTENSION RETRACTED<br>SEE DEDUCTIONS |                        | OPERATING RADIUS<br>IN FT. | <br>25.5-35.5 FT. LATTICE EXTENSION EXTENDED<br>SEE DEDUCTIONS |                      |                         |
|                                                                                                                                                                   | FOR ALL BOOM LENGTHS UP TO 97 FT.                                                                                               |                                                                                   |                            | FOR ALL BOOM LENGTHS UP TO 97.5 FT.                                                                                                              |                        |                            | FOR ALL BOOM LENGTHS UP TO 107.5 FT.                                                                                                            |                      |                         |
|                                                                                                                                                                   | FOR 97 FT. BOOM ONLY                                                                                                            |  |                            | RATED LOAD IN POUNDS                                                                                                                             | FOR 97.5 FT. BOOM ONLY |                            |                                                                | RATED LOAD IN POUNDS | FOR 107.5 FT. BOOM ONLY |
|                                                                                                                                                                   |                                                                                                                                 | 360°                                                                              |                            |                                                                                                                                                  | 360°                   |                            |                                                                                                                                                 | 360°                 |                         |
| 27                                                                                                                                                                | 75                                                                                                                              | 13000                                                                             | 27                         | 75                                                                                                                                               | 13000                  | 27                         |                                                                                                                                                 |                      |                         |
| 30                                                                                                                                                                | 73                                                                                                                              | 12300                                                                             | 30                         | 73                                                                                                                                               | 11900                  | 30                         | 75                                                                                                                                              | 9300                 |                         |
| 35                                                                                                                                                                | 70                                                                                                                              | 11100                                                                             | 35                         | 70                                                                                                                                               | 10700                  | 35                         | 72                                                                                                                                              | 8800                 |                         |
| 40                                                                                                                                                                | 66                                                                                                                              | 10000                                                                             | 40                         | 66                                                                                                                                               | 9700                   | 40                         | 69                                                                                                                                              | 8300                 |                         |
| 45                                                                                                                                                                | 63                                                                                                                              | 8200                                                                              | 45                         | 63                                                                                                                                               | 7900                   | 45                         | 66                                                                                                                                              | 7900                 |                         |
| 50                                                                                                                                                                | 59                                                                                                                              | 6800                                                                              | 50                         | 59                                                                                                                                               | 6500                   | 50                         | 63                                                                                                                                              | 6900                 |                         |
| 55                                                                                                                                                                | 56                                                                                                                              | 5700                                                                              | 55                         | 56                                                                                                                                               | 5500                   | 55                         | 60                                                                                                                                              | 5800                 |                         |
| 60                                                                                                                                                                | 52                                                                                                                              | 4900                                                                              | 60                         | 52                                                                                                                                               | 4600                   | 60                         | 57                                                                                                                                              | 4900                 |                         |
| 65                                                                                                                                                                | 47                                                                                                                              | 4100                                                                              | 65                         | 48                                                                                                                                               | 3900                   | 65                         | 53                                                                                                                                              | 4200                 |                         |
| 70                                                                                                                                                                | 43                                                                                                                              | 3600                                                                              | 70                         | 43                                                                                                                                               | 3300                   | 70                         | 49                                                                                                                                              | 3600                 |                         |
| 75                                                                                                                                                                | 38                                                                                                                              | 3100                                                                              | 75                         | 38                                                                                                                                               | 2800                   | 75                         | 45                                                                                                                                              | 3100                 |                         |
| 80                                                                                                                                                                | 32                                                                                                                              | 2600                                                                              | 80                         | 33                                                                                                                                               | 2300                   | 80                         | 41                                                                                                                                              | 2700                 |                         |
| 85                                                                                                                                                                | 25                                                                                                                              | 2200                                                                              | 85                         | 26                                                                                                                                               | 2000                   | 85                         | 37                                                                                                                                              | 2300                 |                         |
| 90                                                                                                                                                                | 15                                                                                                                              | 1900                                                                              | 90                         | 16                                                                                                                                               | 1600                   | 90                         | 31                                                                                                                                              | 1900                 |                         |
| NOTE:<br>1. WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES TO DETERMINE LOAD RATING.<br>2. FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE. |                                                                                                                                 |                                                                                   |                            |                                                                                                                                                  |                        | 95                         | 25                                                                                                                                              | 1600                 |                         |
|                                                                                                                                                                   |                                                                                                                                 |                                                                                   |                            |                                                                                                                                                  |                        | 100                        | 16                                                                                                                                              | 1400                 |                         |

| MAXIMUM JIB LOAD RATINGS<br>IN POUNDS WITH<br>OUTRIGGERS EXTENDED                  |           |       |      |
|------------------------------------------------------------------------------------|-----------|-------|------|
|  |           |       |      |
| MIN.<br>BOOM<br>ANGLE                                                              | JIB ANGLE |       |      |
|                                                                                    | 0°        | 10°   | 20°  |
| 75°                                                                                | 13000     | 11200 | 9500 |
| 70°                                                                                | 12000     | 10500 | 8500 |
| 65°                                                                                | 10500     | 9600  | 7800 |
| 60°                                                                                | 8000      | 7500  | 7200 |
| 55°                                                                                | 6300      | 6000  | 5800 |
| 50°                                                                                | 5200      | 5000  | 4800 |
| 45°                                                                                | 4300      | 4200  | 4100 |
| 40°                                                                                | 3700      | 3600  | 3500 |
| 35°                                                                                | 3200      | 3100  | 3100 |
| 30°                                                                                | 2800      | 2800  | 2800 |

**JIB CAPACITY NOTES:**

- JIB LOAD RATINGS ABOVE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE OF THE MACHINE. RATINGS BELOW LINE ARE BASED ON STABILITY OF THE MACHINE AND DO NOT EXCEED 85% OF TIPPING LOAD WITH FULLY EXTENDED OUTRIGGERS. USE OF OUTRIGGERS IS REQUIRED WHEN BOOM IS EQUIPPED WITH JIB.
- FOR BUCKET RATINGS ON JIB, DEDUCT 20% FROM MAXIMUM JIB LOAD RATINGS.
- WARNING: DO NOT LIFT WITH JIB AT BOOM ANGLES BELOW 30°. LOSS OF STABILITY OCCURS RAPIDLY.

| MAIN & AUXILIARY HOIST REEVING 6 x 25            |      |       |       |       |       |       |       |   |   |
|--------------------------------------------------|------|-------|-------|-------|-------|-------|-------|---|---|
| 1/2 DIA. WIRE ROPE BREAKING STRENGTH 26,600 LBS. |      |       |       |       |       |       |       |   |   |
| PART OF LINE                                     | 1    | 2     | 3     | 4     | 5     | 6     | 7     | 8 | 9 |
| MAXIMUM LOAD                                     | 7600 | 15200 | 22800 | 30400 | 38000 | 44000 |       |   |   |
| MAIN & AUXILIARY HOIST REEVING 8 x 19            |      |       |       |       |       |       |       |   |   |
| 1/2 DIA. WIRE ROPE BREAKING STRENGTH 23,400 LBS. |      |       |       |       |       |       |       |   |   |
| PART OF LINE                                     | 1    | 2     | 3     | 4     | 5     | 6     | 7     | 8 | 9 |
| MAXIMUM LOAD                                     | 6680 | 13350 | 20000 | 26700 | 33400 | 40000 | 44000 |   |   |

#### 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 OR JIB 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.

#### 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 COLUMN HEADED BY  $\Delta^\circ$ , IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.

| DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS |                                  |                                  |           |                             |                                 |
|---------------------------------------------------|----------------------------------|----------------------------------|-----------|-----------------------------|---------------------------------|
| DESCRIPTION                                       | WITHOUT HOOK BLOCK ON BOOM POINT | HOOK BLOCK ON POWERED BOOM POINT |           |                             |                                 |
|                                                   |                                  | 5 TON                            | 10-22 TON | 5 TON WITH AUXILIARY SHEAVE | 10-22 TON WITH AUXILIARY SHEAVE |
| HOISTING LOAD FROM POWERED BOOM                   | HOOK BLOCK WEIGHT                | 150                              | 350       | 250                         | 450                             |
|                                                   | 25 FT. LATTICE EXTENSION         |                                  |           |                             |                                 |
|                                                   | STOWED                           | 200                              | 400       | 300                         | 500                             |
|                                                   | ERECTED ONLY                     | 1200                             | 1400      | 1300                        | 1500                            |
|                                                   | 5 TON BLOCK                      | 1450                             | 1650      | 1550                        | 1750                            |
|                                                   | 10 TON BLOCK                     | 1850                             | 2050      | 1950                        | 2150                            |
|                                                   | 25.5 FT. LATTICE EXTENSION       |                                  |           |                             |                                 |
|                                                   | STOWED                           | 150                              | 350       | 250                         | 450                             |
|                                                   | ERECTED ONLY                     | 1850                             | 2050      | 1950                        | 2150                            |
|                                                   | 5 TON BLOCK                      | 2100                             | 2300      | 2200                        | 2400                            |
|                                                   | 10 TON BLOCK                     | 2500                             | 2700      | 2600                        | 2800                            |
|                                                   | 35.5 FT. LATTICE EXTENSION       |                                  |           |                             |                                 |
|                                                   | ERECTED ONLY                     | 2000                             | 2200      | 2100                        | 2300                            |
|                                                   | 5 TON BLOCK                      | 2300                             | 2500      | 2400                        | 2600                            |
|                                                   | 10 TON BLOCK                     | 3050                             | 2950      | 3150                        | 3050                            |
| HOISTING LOAD FROM EXTENSION OR JIB               | 14.5 FT. JIB                     |                                  |           |                             |                                 |
|                                                   | STOWED                           | 300                              | 500       | 400                         | 600                             |
|                                                   | ERECTED ONLY                     | 800                              | 1000      | 900                         | 1100                            |
|                                                   | 5 TON BLOCK                      | 1000                             | 1200      | 1100                        | 1300                            |
|                                                   | 10 TON BLOCK                     | 1300                             | 1500      | 1400                        | 1600                            |
|                                                   | 25 FT. LATTICE EXTENSION         |                                  |           |                             |                                 |
|                                                   | 5 TON BLOCK                      | 150                              | 250       | 300                         | 450                             |
|                                                   | 10 TON BLOCK                     | 350                              | 450       | 500                         | 650                             |
|                                                   | 25.5 FT. LATTICE EXTENSION       |                                  |           |                             |                                 |
|                                                   | 5 TON BLOCK                      | 150                              | 250       | 300                         | 450                             |
|                                                   | 10 TON BLOCK                     | 350                              | 450       | 500                         | 650                             |
|                                                   | 35.5 FT. LATTICE EXTENSION       |                                  |           |                             |                                 |
|                                                   | 5 TON BLOCK                      | 150                              | 250       | 300                         | 400                             |
|                                                   | 10 TON BLOCK                     | 350                              | 450       | 500                         | 600                             |
|                                                   | 14.5 FT. JIB                     |                                  |           |                             |                                 |
|                                                   | 5 TON BLOCK                      | 150                              | 250       | 300                         | 450                             |
|                                                   | 10 TON BLOCK                     | 350                              | 450       | 500                         | 650                             |

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

"on tires"

62 foot — three section powered boom

rated crane loads in pounds — main boom — without outriggers

| OPERATING<br>RADIUS<br>F.T. | 16.00 X 24-16 PLY TIRES  |             |                                             |              |
|-----------------------------|--------------------------|-------------|---------------------------------------------|--------------|
|                             | STATIONARY               |             | PICK & CARRY<br>BOOM CENTERED<br>OVER FRONT |              |
|                             | ±6° ARC<br>OVER<br>FRONT | 360°<br>ARC |                                             |              |
|                             |                          |             | CREEP                                       | 2 1/2<br>MPH |
| 10                          | 33400                    | 23900       | 28600                                       | 19000        |
| 12                          | 28900                    | 17700       | 24900                                       | 16300        |
| 15                          | 21400                    | 12300       | 20600                                       | 13300        |
| 20                          | 13500                    | 7800        | 13000                                       | 10000        |
| 25                          | 9400                     | 5300        | 9100                                        | 7800         |
| 30                          | 6900                     | 3700        | 6600                                        | 6200         |
| 35                          | 5300                     | 2700        | 5100                                        | 5000         |
| 40                          | 4000                     | 1800        | 3900                                        | 3900         |
| 45                          | 3100                     | 1300        | 3100                                        | 3100         |
| 50                          | 2400                     |             | 2400                                        | 2400         |
| 55                          | 1800                     |             | 1800                                        | 1800         |
| 60                          |                          |             |                                             |              |

32U2435

| OPERATING<br>RADIUS<br>F.T. | 14.00 X 24-20 PLY TIRES  |             |                                             |              |
|-----------------------------|--------------------------|-------------|---------------------------------------------|--------------|
|                             | STATIONARY               |             | PICK & CARRY<br>BOOM CENTERED<br>OVER FRONT |              |
|                             | ±6° ARC<br>OVER<br>FRONT | 360°<br>ARC |                                             |              |
|                             |                          |             | CREEP                                       | 2 1/2<br>MPH |
| 10                          | 28800                    | 22400       | 24300                                       | 18700        |
| 12                          | 24800                    | 18100       | 21000                                       | 16100        |
| 15                          | 20400                    | 12600       | 17400                                       | 13100        |
| 20                          | 13400                    | 7900        | 13000                                       | 9900         |
| 25                          | 9400                     | 5400        | 9100                                        | 7700         |
| 30                          | 6900                     | 3800        | 6600                                        | 6100         |
| 35                          | 5200                     | 2700        | 5000                                        | 4900         |
| 40                          | 4000                     | 1900        | 3900                                        | 3900         |
| 45                          | 3000                     | 1300        | 3000                                        | 3000         |
| 50                          | 2400                     |             | 2400                                        | 2400         |
| 55                          | 1800                     |             | 1800                                        | 1800         |
| 60                          |                          |             |                                             |              |

32U2433

| OPERATING<br>RADIUS<br>F.T. | 16.00 X 25-24 PLY TIRES  |             |                                             |              |
|-----------------------------|--------------------------|-------------|---------------------------------------------|--------------|
|                             | STATIONARY               |             | PICK & CARRY<br>BOOM CENTERED<br>OVER FRONT |              |
|                             | ±6° ARC<br>OVER<br>FRONT | 360°<br>ARC |                                             |              |
|                             |                          |             | CREEP                                       | 2 1/2<br>MPH |
| 10                          | 33700                    | 25200       | 31600                                       | 26800        |
| 12                          | 29200                    | 18600       | 27600                                       | 23300        |
| 15                          | 21900                    | 13000       | 21100                                       | 19300        |
| 20                          | 13800                    | 8200        | 13300                                       | 13300        |
| 25                          | 9600                     | 5600        | 9300                                        | 9300         |
| 30                          | 7100                     | 3900        | 6800                                        | 6800         |
| 35                          | 5400                     | 2800        | 5200                                        | 5200         |
| 40                          | 4100                     | 2000        | 4000                                        | 4000         |
| 45                          | 3200                     | 1400        | 3200                                        | 3200         |
| 50                          | 2500                     |             | 2500                                        | 2500         |
| 55                          | 1900                     |             | 1900                                        | 1900         |
| 60                          |                          |             |                                             |              |

32U2439

| OPERATING<br>RADIUS<br>F.T. | 17.50 X 25-20 PLY TIRES  |             |                                             |              |
|-----------------------------|--------------------------|-------------|---------------------------------------------|--------------|
|                             | STATIONARY               |             | PICK & CARRY<br>BOOM CENTERED<br>OVER FRONT |              |
|                             | ±6° ARC<br>OVER<br>FRONT | 360°<br>ARC |                                             |              |
|                             |                          |             | CREEP                                       | 2 1/2<br>MPH |
| 10                          | 29000                    | 22400       | 24500                                       | 18800        |
| 12                          | 25100                    | 17500       | 21200                                       | 16100        |
| 15                          | 20600                    | 12200       | 17500                                       | 13200        |
| 20                          | 13400                    | 7600        | 12900                                       | 9900         |
| 25                          | 9400                     | 5200        | 9100                                        | 7700         |
| 30                          | 6900                     | 3600        | 6600                                        | 6100         |
| 35                          | 5200                     | 2600        | 5100                                        | 4900         |
| 40                          | 4000                     | 1800        | 3900                                        | 3900         |
| 45                          | 3000                     | 1200        | 3000                                        | 3000         |
| 50                          | 2400                     |             | 2400                                        | 2400         |
| 55                          | 1800                     |             | 1800                                        | 1800         |
| 60                          |                          |             |                                             |              |

| OPERATING<br>RADIUS<br>F.T. | 20.50 X 25-20 PLY TIRES  |             |                                             |              |
|-----------------------------|--------------------------|-------------|---------------------------------------------|--------------|
|                             | STATIONARY               |             | PICK & CARRY<br>BOOM CENTERED<br>OVER FRONT |              |
|                             | ±6° ARC<br>OVER<br>FRONT | 360°<br>ARC |                                             |              |
|                             |                          |             | CREEP                                       | 2 1/2<br>MPH |
| 10                          | 32900                    | 25600       | 28600                                       | 20200        |
| 12                          | 28500                    | 19100       | 24900                                       | 17400        |
| 15                          | 22000                    | 13300       | 20600                                       | 14300        |
| 20                          | 13800                    | 8400        | 13300                                       | 10800        |
| 25                          | 9700                     | 5800        | 9300                                        | 8500         |
| 30                          | 7100                     | 4100        | 6800                                        | 6700         |
| 35                          | 5400                     | 3000        | 5200                                        | 5200         |
| 40                          | 4200                     | 2100        | 4000                                        | 4000         |
| 45                          | 3200                     | 1500        | 3200                                        | 3200         |
| 50                          | 2500                     | 1000        | 2500                                        | 2500         |
| 55                          | 1900                     |             | 1900                                        | 1900         |
| 60                          |                          |             |                                             |              |

32U2437

#### WARNINGS:

1. WHEN TRANSPORTING A LOAD, MACHINE MUST BE ON FIRM, LEVEL SURFACE WITH MECHANICAL HOUSELOCK ENGAGED. THE LOAD MUST BE CENTERED OVER FRONT OF MACHINE AND RESTRAINED FROM SWINGING. SEE AREAS OF OPERATION PLATE FOR WORKING RANGES.
2. CRANE LOAD RATINGS ON TIRES APPLY ONLY WHEN REAR AXLE LOCKOUTS ARE ENGAGED WHEN SWINGING 360°.
3. DO NOT ATTEMPT LIFTS ON TIRES WITH JIB OR EXTENSION ERECTED.
4. LIFT LOADS WITH SHORTEST BOOM POSSIBLE FOR EACH RADIUS.

#### DEFINITIONS:

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

#### INFORMATION:

1. RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.
2. IT IS RECOMMENDED THAT OUTRIGGERS BE EXTENDED AS FAR AS POSSIBLE AND CLEAR OF GROUND WHEN LIFTING ON TIRES.
3. STABILITY RATINGS DO NOT EXCEED 85% OF TIPPING LOADS.

| DEDUCTIONS TO BE MADE FROM LOAD RATINGS<br>IN POUNDS |                                  |              |                                      |                                          |
|------------------------------------------------------|----------------------------------|--------------|--------------------------------------|------------------------------------------|
| HOOK BLOCK                                           | HOOK BLOCK ON POWERED BOOM POINT |              |                                      |                                          |
|                                                      | 3 TON                            | 10-22<br>TON | 5 TON<br>WITH<br>AUXILIARY<br>SHEAVE | 10-22 TON<br>WITH<br>AUXILIARY<br>SHEAVE |
| HOOK BLOCK WEIGHT                                    | 150                              | 350          | 250                                  | 450                                      |
| 25 FT. BOOM<br>EXTENSION                             | 300                              | 500          | 400                                  | 600                                      |
| 25.5-35.5 FT.<br>BOOM EXTENSION                      | 300                              | 500          | 400                                  | 600                                      |
| 14.5 FT. JIB                                         | 450                              | 650          | 550                                  | 750                                      |

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

| TIRE INFLATION   |                   |           |        |
|------------------|-------------------|-----------|--------|
| SIZE             | STATIC<br>& CREEP | 2 1/2 MPH | TRAVEL |
| 16.00 X 24-16 PR | 80 PSI            | 60 PSI    | 50 PSI |
| 14.00 X 24-20 PR | 110 PSI           | 100 PSI   | 75 PSI |
| 16.00 X 25-24 PR | 100 PSI           | 100 PSI   | 75 PSI |
| 17.50 X 25-20 PR | 95 PSI            | 85 PSI    | 60 PSI |
| 20.50 X 25-20 PR | 80 PSI            | 65 PSI    | 50 PSI |

**WARNING:** CRANE LOAD RATINGS WITHOUT OUTRIGGERS DEPENDS ON TIRE CAPACITY AND CONDITION OF TIRES, INFLATED PER TABLE.

"on tires"

## 72 foot — three section powered boom

rated crane loads in pounds — main boom — without outriggers

| OPERATING<br>RADIUS<br>F.T. | 16.00 X 24-16 PLY TIRES  |             |                                             |              |
|-----------------------------|--------------------------|-------------|---------------------------------------------|--------------|
|                             | STATIONARY               |             | PICK & CARRY<br>BOOM CENTERED<br>OVER FRONT |              |
|                             | ±6° ARC<br>OVER<br>FRONT | 360°<br>ARC | CREEP                                       | 2 1/2<br>MPH |
|                             |                          |             |                                             |              |
| 10                          | 33300                    | 25400       | 28400                                       | 18800        |
| 12                          | 28800                    | 18800       | 24600                                       | 16100        |
| 15                          | 22500                    | 13000       | 20400                                       | 13100        |
| 20                          | 13900                    | 8000        | 13400                                       | 9600         |
| 25                          | 9700                     | 5500        | 9400                                        | 7500         |
| 30                          | 7000                     | 3800        | 6800                                        | 5800         |
| 35                          | 5400                     | 2700        | 5200                                        | 4600         |
| 40                          | 4100                     | 1800        | 3900                                        | 3600         |
| 45                          | 3100                     | 1200        | 3100                                        | 2900         |
| 50                          | 2300                     |             | 2300                                        | 2300         |
| 55                          | 1700                     |             | 1700                                        | 1700         |
| 60                          | 1300                     |             | 1300                                        | 1300         |

32U2428

| OPERATING<br>RADIUS<br>F.T. | 14.00 X 24-20 PLY TIRES  |             |                                             |              |
|-----------------------------|--------------------------|-------------|---------------------------------------------|--------------|
|                             | STATIONARY               |             | PICK & CARRY<br>BOOM CENTERED<br>OVER FRONT |              |
|                             | ±6° ARC<br>OVER<br>FRONT | 360°<br>ARC | CREEP                                       | 2 1/2<br>MPH |
|                             |                          |             |                                             |              |
| 10                          | 28700                    | 22600       | 24100                                       | 18500        |
| 12                          | 24700                    | 19000       | 20800                                       | 15900        |
| 15                          | 20300                    | 13300       | 17100                                       | 12900        |
| 20                          | 13900                    | 8200        | 12900                                       | 9500         |
| 25                          | 9700                     | 5600        | 9400                                        | 7300         |
| 30                          | 7000                     | 3900        | 6800                                        | 5700         |
| 35                          | 5400                     | 2800        | 5200                                        | 4500         |
| 40                          | 4100                     | 1900        | 3900                                        | 3600         |
| 45                          | 3100                     | 1300        | 3000                                        | 2800         |
| 50                          | 2300                     |             | 2300                                        | 2200         |
| 55                          | 1800                     |             | 1700                                        | 1700         |
| 60                          | 1300                     |             | 1300                                        | 1300         |

32U2192

| OPERATING<br>RADIUS<br>F.T. | 16.00 X 25-24 PLY TIRES  |             |                                             |              |
|-----------------------------|--------------------------|-------------|---------------------------------------------|--------------|
|                             | STATIONARY               |             | PICK & CARRY<br>BOOM CENTERED<br>OVER FRONT |              |
|                             | ±6° ARC<br>OVER<br>FRONT | 360°<br>ARC | CREEP                                       | 2 1/2<br>MPH |
|                             |                          |             |                                             |              |
| 10                          | 33600                    | 26100       | 31400                                       | 26600        |
| 12                          | 29000                    | 19700       | 27300                                       | 23100        |
| 15                          | 22900                    | 13700       | 22100                                       | 19100        |
| 20                          | 14200                    | 8400        | 13700                                       | 13700        |
| 25                          | 9900                     | 5800        | 9600                                        | 9600         |
| 30                          | 7200                     | 4000        | 7000                                        | 7000         |
| 35                          | 5500                     | 2900        | 5300                                        | 5300         |
| 40                          | 4200                     | 2000        | 4000                                        | 4000         |
| 45                          | 3200                     | 1400        | 3200                                        | 3200         |
| 50                          | 2400                     |             | 2400                                        | 2400         |
| 55                          | 1800                     |             | 1800                                        | 1800         |
| 60                          | 1400                     |             | 1400                                        | 1400         |

32U2432

| OPERATING<br>RADIUS<br>F.T. | 17.50 X 25-20 PLY TIRES  |             |                                             |              |
|-----------------------------|--------------------------|-------------|---------------------------------------------|--------------|
|                             | STATIONARY               |             | PICK & CARRY<br>BOOM CENTERED<br>OVER FRONT |              |
|                             | ±6° ARC<br>OVER<br>FRONT | 360°<br>ARC | CREEP                                       | 2 1/2<br>MPH |
|                             |                          |             |                                             |              |
| 10                          | 28900                    | 22500       | 24300                                       | 18500        |
| 12                          | 24900                    | 18500       | 21000                                       | 15900        |
| 15                          | 20400                    | 12900       | 17300                                       | 12900        |
| 20                          | 13800                    | 7900        | 13000                                       | 9500         |
| 25                          | 9700                     | 5400        | 9300                                        | 7400         |
| 30                          | 7000                     | 3700        | 6800                                        | 5700         |
| 35                          | 5300                     | 2600        | 5100                                        | 4500         |
| 40                          | 4000                     | 1800        | 3900                                        | 3600         |
| 45                          | 3000                     | 1200        | 3000                                        | 2900         |
| 50                          | 2300                     |             | 2300                                        | 2200         |
| 55                          | 1700                     |             | 1700                                        | 1700         |
| 60                          | 1300                     |             | 1300                                        | 1300         |

| OPERATING<br>RADIUS<br>F.T. | 20.50 X 25-20 PLY TIRES  |             |                                             |              |
|-----------------------------|--------------------------|-------------|---------------------------------------------|--------------|
|                             | STATIONARY               |             | PICK & CARRY<br>BOOM CENTERED<br>OVER FRONT |              |
|                             | ±6° ARC<br>OVER<br>FRONT | 360°<br>ARC | CREEP                                       | 2 1/2<br>MPH |
|                             |                          |             |                                             |              |
| 10                          | 32800                    | 25700       | 28400                                       | 20000        |
| 12                          | 28300                    | 20200       | 24700                                       | 17200        |
| 15                          | 23000                    | 14000       | 20400                                       | 14000        |
| 20                          | 14200                    | 8700        | 13700                                       | 10400        |
| 25                          | 10000                    | 6000        | 9600                                        | 8100         |
| 30                          | 7300                     | 4100        | 7000                                        | 6300         |
| 35                          | 5500                     | 3000        | 5300                                        | 5100         |
| 40                          | 4200                     | 2100        | 4100                                        | 4100         |
| 45                          | 3200                     | 1500        | 3200                                        | 3200         |
| 50                          | 2400                     |             | 2400                                        | 2400         |
| 55                          | 1900                     |             | 1900                                        | 1900         |
| 60                          | 1400                     |             | 1400                                        | 1400         |

32U2430

### WARNINGS:

1. WHEN TRANSPORTING A LOAD, MACHINE MUST BE ON FIRM, LEVEL SURFACE WITH MECHANICAL HOUSELOCK ENGAGED. THE LOAD MUST BE CENTERED OVER FRONT OF MACHINE AND RESTRAINED FROM SWINGING. SEE AREAS OF OPERATION PLATE FOR WORKING RANGES.
2. CRANE LOAD RATINGS ON TIRES APPLY ONLY WHEN REAR AXLE LOCKOUTS ARE ENGAGED WHEN SWINGING 360°.
3. DO NOT ATTEMPT LIFTS ON TIRES WITH JIB OR EXTENSION ERECTED.
4. LIFT LOADS WITH SHORTEST BOOM POSSIBLE FOR EACH RADIUS.

### DEFINITIONS:

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

### INFORMATION:

1. RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.
2. IT IS RECOMMENDED THAT OUTRIGGERS BE EXTENDED AS FAR AS POSSIBLE AND CLEAR OF GROUND WHEN LIFTING ON TIRES.
3. STABILITY RATINGS DO NOT EXCEED 85% OF TIPPING LOADS.

| DEDUCTIONS TO BE MADE FROM LOAD RATINGS<br>IN POUNDS |                                  |           |                                   |                                          |
|------------------------------------------------------|----------------------------------|-----------|-----------------------------------|------------------------------------------|
| HOOK BLOCK                                           | HOOK BLOCK ON POWERED BOOM POINT |           |                                   |                                          |
|                                                      | 5 TON                            | 10-22 TON | 5 TON WITH<br>AUXILIARY<br>SHEAVE | 10-22 TON<br>WITH<br>AUXILIARY<br>SHEAVE |
| HOOK BLOCK WEIGHT                                    | 150                              | 350       | 250                               | 450                                      |
| STOWED<br>EXTENSION<br>OR JIB                        |                                  |           |                                   |                                          |
| 25 FT. BOOM<br>EXTENSION                             | 450                              | 650       | 550                               | 750                                      |
| 25.5-35.5 FT.<br>BOOM EXTENSION                      | 500                              | 700       | 600                               | 800                                      |
| 14.5 FT. JIB                                         | 500                              | 700       | 600                               | 800                                      |

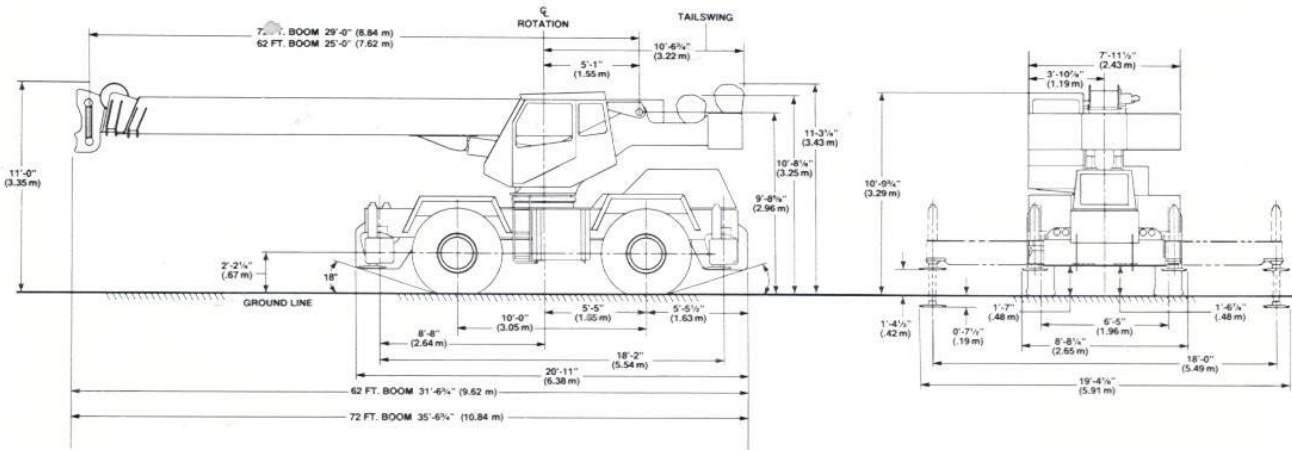
NOTE: LOAD DEDUCTIONS APPLY ONLY TO P&H SUPPLIED EQUIPMENT.

| TIRE INFLATION   |                   |           |        |
|------------------|-------------------|-----------|--------|
| SIZE             | STATIC<br>& CREEP | 2 1/2 MPH | TRAVEL |
| 16.00 X 24-16 PR | 80 PSI            | 60 PSI    | 50 PSI |
| 14.00 X 24-20 PR | 110 PSI           | 100 PSI   | 75 PSI |
| 16.00 X 25-24 PR | 100 PSI           | 100 PSI   | 75 PSI |
| 17.50 X 25-20 PR | 95 PSI            | 85 PSI    | 60 PSI |
| 20.50 X 25-20 PR | 80 PSI            | 65 PSI    | 50 PSI |

WARNING: CRANE LOAD RATINGS WITHOUT OUTRIGGERS DEPENDS ON TIRE CAPACITY AND CONDITION OF TIRES, INFLATED PER TABLE.

# dimensions

DIMENSIONS ARE WITH STANDARD TIRE SIZE — 16:00 x 24  
 WITH 14:00 X 24 TIRES - DEDUCT 1 3/8" (34.9 mm) FROM HEIGHT DIMENSIONS  
 WITH 20.5 x 25 TIRES - ADD 3/8" (9.5 mm) TO HEIGHT DIMENSIONS  
 WITH 16:00 x 25 TIRES - ADD 3/8" (22.3 mm) TO HEIGHT DIMENSIONS  
 WITH 17:50 x 25 TIRES - DEDUCT 2 1/2" (63.5mm) FROM HEIGHT DIMENSIONS



## TIRES

|                                                  | 14:00x24            | 16:00x24           | 20.5x25             | 16:00x25            | 17:50x25           |
|--------------------------------------------------|---------------------|--------------------|---------------------|---------------------|--------------------|
| VEHICLE TURNING DIAMETER — 4 WHEEL STEER CRAMP   | 30'7 3/4" (9.34m)   | 37'9 1/2" (11.5m)  | 38'1 1/2" (11.61m)  | 37'11 1/4" (11.56m) | 37'8 3/4" (11.49m) |
| — FRONT AXLE STEER                               | 55'3/4" (16.78m)    | 69'3 3/4" (21.13m) | 69'7 3/4" (21.23m)  | 69'5 5/8" (21.18m)  | 69'3" (21.11m)     |
| VEHICLE CLEARANCE DIAMETER — 4 WHEEL STEER CRAMP | 35'10 3/4" (10.94m) | 42'7 7/8" (13.00m) | 42'11 1/2" (13.08m) | 42'8 3/4" (13.01m)  | 42'8" (13.01m)     |
| — FRONT AXLE STEER                               | 60'2 3/4" (18.36m)  | 74'1 3/4" (22.60m) | 74'4 3/4" (22.68m)  | 74'1 1/2" (22.60m)  | 74'1 1/2" (22.60m) |



**NOTE:** All designs, specifications and components of the equipment described above are subject to change at the manufacturer's sole discretion at any time 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. Manufactured and sold in conformance with U.S. Department of Commerce Commercial Standard CS-90-58. Manufactured by Kobe Steel Ltd., Japan.

