

Rough Terrain Crane
80 Ton (72.6 Tonnes) Capacity
198 ft. 6 in. (60.5 m) Max. Boom and Extension
Tip Height 205 ft. (62.5 m)

- **Full Power 4 Section Boom:** 124 ft. 8 in. (38 m) makes it the longest in its class. Fully synchronous in four section mode for long lifts; fully synchronous in three section mode for heavy lifts - gives you the best of both worlds.
- **Lattice Extensions:** Telescopic lattice extension - 32 ft. 10 in. (10 m) to 57 ft. 5 in. (17.5 m) plus a 16 ft. 5 in. (5 m) lattice extender insert which yields a total attachment length of 198 ft. 5 in. (60.5 m). Offsetable to 30 degrees.
- **Moveable:** Can be brought to transport weight without removing the boom. Swingaway, tires and rims, and counterweight are all easily removed to reduce the overall weight to under 90,000 pounds (40824 kg).
- **Easy Ride:** Boom stabilizing system absorbs vertical boom oscillation for a more comfortable ride and reduced wear and tear on the crane.
- **Matched P&H Winches:** Bent axis motors give you smooth operation and precise meterability with infinitely variable speed control. The highest maximum line pull of any rough terrain crane.
- **Operator's Cab:** Independently mounted cab has all the P&H comforts: tilt, telescoping steering wheel; joysticks or armrest mounted levers; fully adjustable seat; opening windows all around, and common-sense gauge and switch layout.
- **Three Steering Modes:** Front wheel, 4-wheel coordinated crab or crab - all controlled by the steering wheel.
- **LMI:** Electronic load moment device is standard equipment. It gives you precise crane operation information under any load conditions.
- **Three Outrigger Positions:** Set the outriggers straight down, at the mid-point, or fully extended. You have the option for optimum set-up on a congested work site.
- **PRIDE Plus P&H** The Pride Plus warranty. . .the most comprehensive warranty in the business. Our standard warranty covers the entire crane for 12 months or 2000 hours of operation, whichever comes first. Major weldment structures are covered for 5 years or 10,000 hours of operation.



Specifications

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This P&H crane meets the requirements of ANSI B30.5 (1987). Boom structure (boom and lattice extension) has been tested per SAE J1063, machine stability tested per SAE J765.



Boom: 39 ft. 4 in. (12 m) retracted to 124 ft. 8 in. (38 m) extended length, four section boom consisting of a boom base, and three hydraulically extended and retracted sections. Boom point has 5 non-metallic main sheaves and 2 non-metallic idler sheaves. A sixth main sheave is available as are metallic sheaves. Boom elevation from -2° to 82°.

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

Boom Hoist: Two Cylinders, double-acting. Hydraulically powered raising and lowering with holding valve.

Boom Telescope: One double telescoping cylinder with chain crowd mechanism. Hydraulically powered extending and retracting with holding valve.

Counterweight: 18,500 lbs (8392 kg) standard, non-removable type.

Counterweight Option: Self removable style, for reducing overall weight for transport.

BOOM OPTIONS:

Lattice Extension: Swingaway lattice extension, 32 ft. 10 in. (10 m), self-storing on base section of main boom. Offsettable to 30°.

Telescopic Lattice Extension: Swingaway lattice extension, 32 ft. 10 in. (10 m) to 57 ft. 5 in. (17.5 m), self-storing on base section of main boom. Offsettable to 30°.

Lattice Extender Insert: 16 ft. 5 in. (5 m). Mounts to boom tip, between main boom and swingaway.

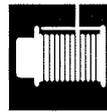
Auxiliary Boom Point Sheave: Mounted at boom point with single metallic sheave.



Operator's Cab: All-weather environmental cab of steel has hinged ceiling window, slide-by side and rear windows, locking slide-by door with tinted safety glass used throughout. Operator's cloth covered seat is six-way adjustable and has torsion suspension and seat belt. Cab is cushion mounted for vibration dampening and noise reduction.

Cab Equipment: Cab contains all roading and crane function controls. Front console includes gauges for engine water temperature, engine oil pressure, hydraulic oil temperature, transmission temperature, air pressure and fuel. Also includes hourmeter, speedometer, tachometer, voltmeter, winch high speed indicator, rear steer centering light, engine condition warning system, anti-two block warning device and electronic LMI console, and dash lights. Additional cab equipment includes windshield wiper and washer, defroster fan, interior cab light, fire extinguisher, machine level gauge, electric horn and hand throttle.

Armrest mounted joystick or short lever controls for swing, auxiliary winch, main winch, and boom hoist. Foot pedals for swing brake, boom telescope, service brakes and engine throttle. The shifter for transmission is on the steering column.



Winch: P&H 2080 two-speed with bent axis piston motor mounted on rear of revolving 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 690 feet (210 m) of 3/4 in. (19 mm) wire rope and drum turn indicator.

Drum: 16.6 in. (422 mm) diameter x 22.8 in. (579 mm) wide with 27.8 in. (705 mm) diameter flanges.

Wire Rope: 3/4 in. (19 mm) diameter, 6x37 extra improved plow steel with 7x7 IWRC.

Drum Capacity: 778 ft. (237 m) of 3/4 in. (19 mm) wire rope.

Line Pull (Max): 22,410 lbs (10165 kg) 1st layer, low speed.

Line Pull (Permissible): 16,000 lbs. (6802 kg) per part of line.

Line Speed: (Max.) 441 fpm (134 m/m) 5th layer, high speed.

HOISTING OPTIONS:

Auxiliary Winch: P&H 2080, same as main winch. Wire rope is optional.

Auxiliary Winch: P&H 1580, two-speed with bent axis piston motor. Planetary gearing with equal speed power raising and lowering. Infinitely variable speed control. Spring applied, hydraulically released load holding multi-disc brake is automatic. Complete with drum turn indicator.

Drum: 14.3 in. (362 mm) diameter x 18.5 in. (470 mm) wide with 22.5 in. (572 mm) diameter flanges.

Drum Capacity: 554 ft. (168 m) of 3/4 in. (19 mm) wire rope.

Line Pull (Max): 18,282 lbs (8291 kg) 1st layer, low speed.

Line Pull (Permissible): 11,000 lbs. (4991 kg) 5th layer.

Line Speed (Max.): 621 fpm (189 m/m), 5th layer, high speed.

Auxiliary Winch Wire Rope: 3/4 in. (19 mm) diameter, 6 x 37 extra improved plow steel with 7 x 7 IWRC, or 8 x 19 extra improved plow steel with 7 x 7 IWRC spin resistant. Length is 690 ft. (210 m) with 2080 winch and 550 ft. (168 m) with 1580 winch.

Cable Spooling Device: for main or auxiliary winches.

Hook Blocks: 80 ton (75 tonne) with 5 sheaves, or 20 ton (18 tonne) with 1 sheave.

Headache Ball: 10 ton (9 tonne) weighted hook.



Swing Unit: 360 degree continuous rotation to 1.5 rpm. Internal cut spur gear slewing ring.

Swing Brake: Spring applied, hydraulically released, dry disc brake, integral with swing reducer.

House Lock: Manually engaged 360 degree house lock.

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.

Rotating Manifold: Sealed rotary swivel and hydraulic hose connections between rotating upper and carrier; removable from above or below for servicing. Electrical swivel is mounted on top of air and hydraulic swivel.

Electrical System: Electrical system is 24 volt negative ground. Wiring harnesses have protective covering and are independently clamped to framework. Wire harnesses have environmentally

sealed Deutsch connectors. Two 8D batteries.

Hydraulic System: System uses two tandem gear type pumps with a total flow of 146 gpm (552 lpm). Filters include two return line filters, ten micron (nominal), externally mounted directly to the reservoir. One pressure line filter, 20 micron (nominal) in outrigger circuit. All return oil is filtered.

Pump Drive: Gear driven integral with transmission off rear of torque converter housing. The pumps are equipped with manual disconnect.

Oil Reservoir: 308 gallons (1166 liters) capacity.

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



Carrier: P&H 4 x 4 x 4; 12 ft. (3.7 m) wide, 28 ft. 2 in. (8.6 m) long.



Outriggers: Hydraulic, independent, out and down type to raise all four wheels clear of the ground. Control is from the cab. Each vertical cylinder is equipped with a holding valve. The outriggers may be set in three positions for optimum setup on congested job sites. Capacity charts are provided for each position. Outriggers are single stage with an extension of 25 ft. 2 in. (7.6 m). Front to rear spread is the same.

Outrigger Floats: Individually removable floats with storage on carrier. Float size 30 in. (76.2 cm) diameter with effective nominal surface area of 707 sq. in. (4560 sq. cm) per float.

Front Axle: Planetary drive steer, rigid mounted.

Rear Axle: Planetary drive steer, mounted on oscillating cradle with hydraulic lockout cylinders - Oscillation \pm 5.5 in. (140 mm).

Service Brakes: Full air operating drum brakes on each wheel end. Dual brakes standard.

Parking Brakes: Spring set/air released drum brakes on each wheel end.



Steering: Hydrostatic power steering, front and rear axles. Control modes for front only, four-wheel crab and crab steering. All controlled by the steering wheel. Switch for independent rear steer. Minimum turning radius is 22 ft. 5 in. (6.8 m).

Tires: 29.5 x 25 - 28PR tubeless with rock tread (E-3).

Tire Options:

- 29.5 x 29 - 34PR tubeless with rock tread (E-3).
- 33.25 x 29-26PR tubeless with rock tread (E-3).
- Spare wheels and tires.
- Tire inflation kit.
- Tire and rim removal device.



Power Plant:

Make: Cummins
Model: 6CTA8.3
Type: 4 stroke diesel
Horsepower: 250 HP (187 kw) @ 2500 rpm
Aspiration: Turbocharged, Aftercooled

Max Torque: 650 ft. lb. (81 kg - m) @ 1800 rpm
Cylinders: Six: 4.49 in. (114 mm) bore x 5.31 in. (135 mm) stroke.
Displacement: 504.5 cu. in. (8.3 liters).



Power Plant Option

Make: Detroit Diesel
Model: 6V53T
Type: 2 cycle diesel
Horsepower: 250 (187 kw) @ 2600 rpm
Aspiration: Turbocharged, Aftercooled
Max. Torque: 593 ft. lb. (74 kg-m) @ 1600 rpm.
Cylinders: Six: 3.88 in. (98 mm) Bore x 4.5 in. (114 mm) Stroke
Displacement: 318 cu. in. (5.2 Liters)
Alternator: Delco 24 volt, 70 amp.
Electrical: 24 volt system with negative ground
Air Compressor: 12 CFM @ 1250 rpm (340 liters per min.).

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

Air Cleaner: Single stage primary dry type with restriction indicator and replaceable element.

Fuel Tank: 80 gallons (300 liters).



Transmission: Powershift with hi-lo range and torque convertor, 8 speeds forward, 6 reverse. Gear selection electrically controlled and operated. Front axle disconnect: 2 wheel drive, 4 wheel drive, electrically controlled and operated.



Performance: Theoretical, based on 115,000 lbs. (52164 kg) GVW; 29.5x25 tires; 18,500 lbs. (8392 kg) counterweight; 124ft. 8in. (38 m) boom, and all other standard equipment. Speed and gradeability will vary due to engine performance, vehicle weight and optional tires. Gradeability based on SAE J688.

Max. Speed: 23 mph (37 km/h)

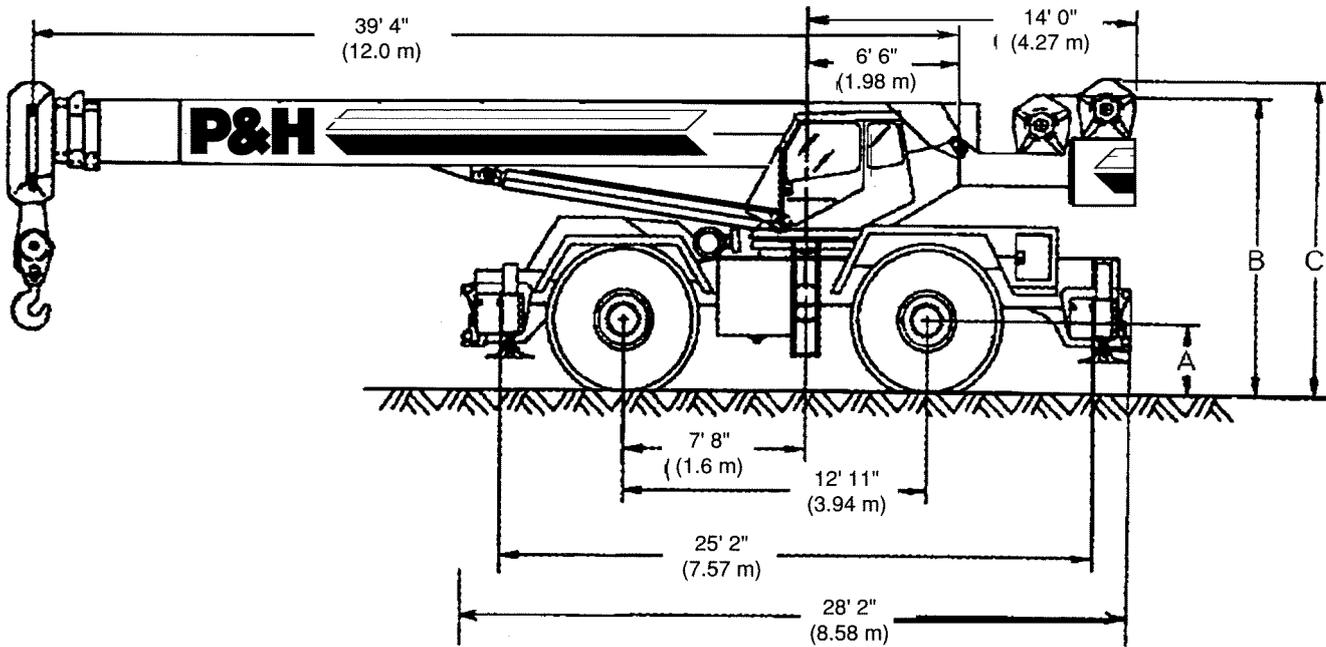
Max. Grade @ 1 mph (1.6 km/hr): 50%.

Miscellaneous Equipment (Standard): Sliding engine hood, front and rear tow lugs, hydraulic pump disconnect, automatic moisture ejector, rear axle drive disconnect, air to oil hydraulic cooler, air dryer, axle lockout with override, headlights, taillights, turn signals & flashers, back-up alarm, rear view mirrors, storage compartments, and hook block tie-down.

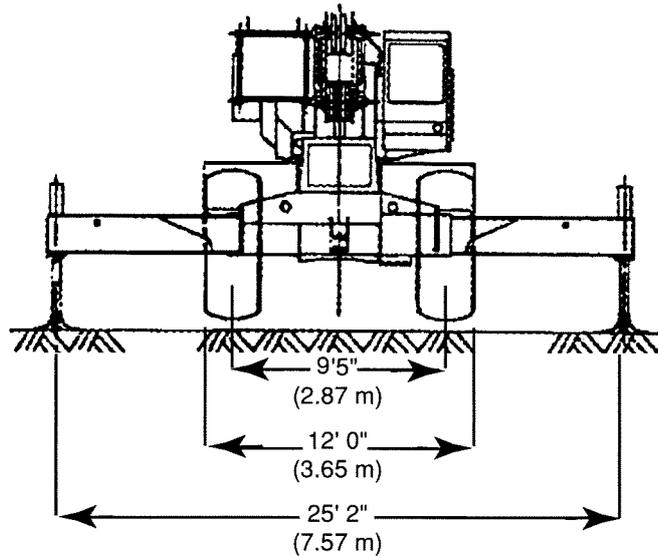
Miscellaneous Equipment (Optional): Engine starting aid, pintle hooks, floodlights, amber beacon, roof wiper, hydraulic air conditioner, and choice of propane, diesel, or hydraulic (c/w A.C.) heater.

Note: Capacity charts and related lifting data can be found in a separate publication.

General Dimensions



Tire Size	A	B	C
29.5 x 25	2' 9" (0.84 m)	12' 8" (3.86 m)	13' 0" (3.96 m)
29.5 x 29	2' 11" (0.89 m)	12' 10" (3.91 m)	13' 2" (4.01 m)
33.25 x 29	3' 1" (0.94 m)	13' 0" (3.96 m)	13' 4" (4.06 m)



NOTE: All designs, specifications and components of the equipment described above are subject to change at the manufacturer's sole discretion at any time and without advance notice. The individual load charts and related lifting data on each crane must be understood and govern operation of the crane. Data published herein is informational in nature and shall not be construed to warrant suitability of the machine for any particular purpose as performance may vary with conditions encountered. The only warranty applicable is our standard warranty for this machine.



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