

P&H® Century 128

Designed and manufactured by Century II, Inc.

Rough Terrain Crane 28Ton Maximum Capacity 137 Feet (41.8 m) Maximum Tip Height

Built to Celebrate Over a Century of Quality and Service

Superior lifting performance provided by P&H rectangular full depth four-plate boom welded inside and out.

Choice of boom attachments - with lattice extension, telescoping lattice extension, or "A" frame jib options. Lattice extensions can be offset 22°.

Total operator comfort means less fatigue and greater production. Spacious cab has 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 has optimum flow for fast crane functioning. *No derating of capacities on powered boom or 25 foot lattice extension for bucket work.*

Heavy-duty electrical system is built for maximum reliability. Triple-sealed electrical connectors protect against corrosion and vibration. Environmentally protected switches, relays and solenoids.

Less downtime - The 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 P&H Easy Ride® shock-absorbing device cancels vehicular bouncing motion during travel between jobs.



Specifications

Specifications

ITEM
NO.

This P&H crane meets the requirements of ANSI B30.5c-1987. Boom Structure (boom, lattice extension and jib) has been tested per SAE J1063, machine stability tested per SAE J765. LOAD RATINGS shown apply only to machine as manufactured by Century II, Inc.

BASIC MACHINE

Boom



Boom: All boom sections are of full depth rectangular four plate construction, welded inside and out, with adjustable slider pulleys 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.

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 Boom: 91' (27.74M) four (4) section boom with manual section, 29' (8.8M) retracted length, 91' (27.74M) extended length, consisting of one base section, two hydraulically powered "first" and "second" sections, and one manually pinned section that can be hydraulically extended or retracted.

For performance characteristics, see Chart No.3: Range Diagram 91' Boom and Chart Nos.5 and 6: Lifting Capacities, 91' Boom.

(See Options for 72 foot boom).

(For enhanced performance, see Boom Options and Accessories).

Counterweights (as furnished)

For 91' boom w/o auxiliary hoist - 8300 lbs.(3765kg)

w/ auxiliary hoist - 7800 lbs.(3538kg)

For 72' boom w/o auxiliary hoist - 7300 lbs.(3311kg)

w/ auxiliary hoist - 6800 lbs.(3084kg)

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 a full view in all directions. Safety glass used throughout. Operator's three-way adjustable seat has torsion suspension and seat belt. Cab is 33.5" (850mm) wide with a stand-up height of 56" (1422mm) and is cushioned mounted for vibration dampening and noise reduction.

Cab Equipment (Standard): Cab contains all roading 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, electric anti-two-block warning indicator, windshield wiper, fire extinguisher, electric horn, tachometer, speedometer, rearview mirror and dash light.



Controls: In front of operator are foot pedals for boom hoist, swing brake, service brakes, and engine throttle. Far 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 (Easy Ride), and house lock lever. Console has pre-wired, 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 (Standard): 1/2" (13mm) dia. 6x25 extra improved plow steel,

with 7x7 I.W.R.C.

(See options, page 4, for spin resistant rope).

See Chart No. 24, Hoist Reeving, for rope capacities and parts of line required.

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

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

Line Pull (Permissible - based on strength of wire rope): 7,600 lbs. (3,454kg) 6x25 cable.

Line speed Up (max.): 404 fpm (123M/m) 5th layer.

(See options for Auxiliary Winch)



Boom Hoist: One 11.04" (280mm) 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 roading machines. Stabilizer is controlled from operator's cab.

Boom Telescope: Two 5.29" (134mm) I.D. - double-acting for powered sections. 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 44 gpm (166 lpm) to the main and/or auxiliary winches and 44 gpm (166 lpm) to the boom hoist and boom telescope cylinders. A second tandem pump, operating at 2650 rpm, provides 27 gpm (102 lpm) to the swing circuit and 27 gpm (102 lpm) for the steering, winch boost and outrigger circuits. Total flow at 2650 engine rpm is 142 gpm (536 lpm). All hydraulic oil is filtered to 7 microns on return to the reservoir. Maximum pressure drop of return filter with clean element and oil at normal operating temperature is 25% of by-pass setting to assure minimum fluid resistance and power loss while protecting seals in cylinders, valves and motors.

The 90 gal. (340 l) reservoir is located on the left side of the 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" (100.75cm) P.D.

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.

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 (3200kg/sq. cm) minimum yield steel and reinforced with rectangular box cross members of high strength 47,000 psi (3300 kg/ sq. cm) minimum yield steel.



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 of high strength 79,600 psi (5600 kg/cm²) minimum yield steel. Four (4) fabricated 14" (35.6cm) sq. floats are removable and stored on the frame. Extended spread is 18'-0" (5.4M) from C/L to C/L of verticle cylinders Retracted within carrier width of 8'-0" (2.44M).



Steering Options: (A) Front axle steer - hydrostatic power system fully controlled by steering wheel; (B) Front and rear axle steer - hydrostatic power system fully controlled by steering wheel for front and rear axles. Two wheel, four wheel and crab steer mode selection is controlled by three-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 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" (20.3cm).

Service Brakes: Air over hydraulic brakes on all four 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 - 20.5x25 - 20 PR Tubeless Sure Grip Lug Wide Base (E-2) See Chart Nos.13-23 for "On Rubber" lifting capacities. Alternate tires and spares available. See Options.

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. Additional accessories listed under Options.



Power Plant: (Standard)

Make	Cummins
Model	6BT5.9
Type	Diesel
Cylinders	6
BoreXStroke	4.02X4.72 in. 102X120mm
Displacement	359 cu.in. 5.88 liters
Cycles	Four
Air Induction	Turbocharged
Starting	12 volt motor Negative Ground
Charging	12 volt alternator, 80 amp
Compressor, Air	Air 9.5 CFM @ 1250 rpm
Governor, Air	100-120 psi
Fan	6 blade, suction type 22 in. (559mm)
Ratings:	
Gross HP @ rpm	130 @ 2650
Kilowatts @ rpm	97 @ 2650
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 is 12 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. Reserve capacity 398 minutes. Cold cranking amps at 0°F - 885 amps.

Battery

Fuel Tank 50.0 gal. (189 liters) 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.

Transmission (standard): Powershift with high/low range. Fully electric gear shift, 3 speeds forward and 3 reverse, with high-low electric controlled air range shift. Electrically controlled air-generated front axle disconnect for highway travel.

Fully sequential transmission is optional.



Performance: Standard Powershift Transmission - 3 forward, 3 reverse speeds. Performance in highest and lowest gear based on engine at full load rpm, 51,320 lb. gross vehicle weight, 20.50x25 tires, 91' boom, 8300 lbs. counterweight and good surface road. Maximum grade at 1 mph is approximately 48.6%.

Low Range Speeds		High Range Speeds	
1st	2.9 mph (4.6 kmph)	1st	6.5 mph (10.5 kmph)
2nd	6.3 mph (10.1 kmph)	2nd	13.9 mph (22.3 kmph)
3rd	12.0 mph (19.3 kmph)	3rd	25.0 mph (40.2 kmph)

(End - BASIC MACHINE)

OPTIONS

Boom Options and Accessories

ITEM NO.

115

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: 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 the top of the base section, pass around the sheaves which are pinned to the front end of the "first" section 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 11.50" (292mm) 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.

For performance characteristics, see Chart No.11: Range Diagram 72' Boom and Chart No.13: Lifting Capacities, 72' Boom.

125

25' (7.62M) Lattice Extension: Swing-around tapered lattice structure with single 13.1" (332.7mm) P.D. metallic boom 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. Includes Anti-Two Block material. Offset 2° from boom. For extending reach of boom. Includes Item 145 with new machine.

135

25'6" to 42'6" (7.8-12.95m) Lattice Extension: Swing-around tapered lattice structure with welded four-plate telescopic section and single 13.1" (332.7mm) metallic boom 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. Includes Anti-Two Block material. Offset 2° from boom. For extending reach of boom. Includes Item 150 with new machine.

For performance characteristics see Chart Nos. 6, 7, 15 and 16.

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- 138 **Extension Offset Mechanism:** Pivoting link which allows lattice extensions to be offset 22° from main boom. For reach up and over structures.
- 140 **14' 6" (4.4 m) Jib:** Underslung "A" frame structure with single 14.17" (360mm) P.D. metallic boom point sheave with bronze bushing. Easily installed from ground level by pivoting from its stored position on under side of boom base. Pin and pendant connected to boom point. Includes Anti-Two Block material. Offsets at 0°, 10° and 20°. For extending reach of boom. Includes Item 155 with new machine.
- For performance characteristics, See chart No. 14.*
- 145 **Material for storing 25' extension on right side of boom.**
- 150 **Material for storing 25' 6" - 42' 6" extension on right side of boom.**
- 155 **Material for storing 14' 6" "A" frame jib under boom.**
- 160 **Auxiliary Boom Point Sheave:** Single 13.1" (332.7mm) P.D. metallic sheave with bronze bushings, bracket mounted on boom point. Includes Anti-Two Block material. For use with single auxiliary winch line.
- 205 **Auxiliary Winch:** Same as main winch. Mounted on rear of revolving frame. Complete with 360' (110m) wire rope and additional boom point idler sheave.
- 215 **Spin Resistant Wire Rope (main winch):** 1/2" x 425' (13mm x 130M) 8 x 19 extra improved plow steel w/ 7 x 7 I.W.R.C.
- 220 **Wire Rope (aux. winch):** 1/2" x 360' (13mm x 110M) 6 x 25 extra improved plow steel w/ 7x7 I.W.R.C.
- 225 **Spin Resistant Wire Rope (aux. winch):** 1/2" x 360' (13mm x 110M) 8x19 extra improved plow steel w/ 7x7 I.W.R.C.
- See Chart no. 2, Hoist Reeving and Wire Rope Capacities.*
- 230 **Mechanical Drum Turn Indicator:** (Aux. winch only, standard on main winch).
- 235 **28 ton Hook Block:** (25 metric ton) 4 sheaves with swivel and safety latch, for 1/2" (13mm) wire rope.
- 240 **15 ton Hook Block:** (13.6 metric ton) 2 sheaves with swivel hook and safety latch, for 1/2" (13mm) wire rope.
- 245 **10 ton Hook Block:** (9.1 metric ton) single sheave with swivel hook and safety latch, for 1/2" (13mm) wire rope.
- 250 **5 ton Weighted Hook:** (4.5 metric ton) with swivel and safety latch, for 1/2" (13mm) wire rope.
- 255 **Cable spooling Device:** main or auxiliary winch.
- 260 **Plumbing and Controls for Auxiliary Winch:** (No winch) (For later installation of winch).
- 265 **Frame-Mounted Single Speed Winch:** 15,000 lb. line pull.

Power Train Options

300 Power Plant (Optional)

Make:	Detroit Diesel
Model:	V-8.2L
Type:	Diesel
No. of Cylinders:	8
Bore x Stroke:	4.25 x 4.41 in. 108 x 112mm
Displacement:	500 cu.in. 8.2 liters
Cycles:	Four
Air Induction:	Nat. Aspirated
Starting:	12 volt moter Negative ground
Charging:	12 volt alternator, 80 amp
Compressor, air:	12 CFM @ 1250 rpm
Governor, air:	100-120 psi
Fan:	6 blade, suction type, 22" (559mm)
Ratings:	
Gross HP @ rpm	128 @ 2650
Kilowatts @ rpm	95.5 @ 2650

ITEM
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- 315 **Sequential Powershift Transmission:** 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. For standard or optional engines.
- 330 **No Spin Axle** - rear axle only
- 340 **Cold Weather Starting Aid:** (measured shot) required below 30°F. (-1°C)
- 350 **Override for axle lockout**
- 405 **Windshield Washer**
- 410 **Roof Window Wiper**
- 415 **Heater & Defroster:** - Diesel
- 420 **Heater & Defroster:** - Propane w/o Tank
- 435 **Vandalism Kit:** - Lexan Glass
- 440 **Tinted Glass**
- 450 **Air Conditioner**
- 455 **Amber Rotating Beacon:** Top of Cab
- 460 **Floodlight:** (3), Includes Standard Alternator
- 510 **Tires 16:00x25-24 Ply Tubeless:** Earthmover Sure Grip (E-3)
- 525 **Tires 20.5x25-20 Ply Tubeless:** Super Hard Rock Lug WideBase (E-3)
- See "on rubber" lifting Charts nos. 8, 9, 17 and 18.*
- 540 **Spare Tire & Wheel:** 16:00x25--24 Ply Tubeless Earthmover Sure Grip (E3)
- 550 **Spare Tire & Wheel:** 20.5x25-20 Ply Tubeless Sure Grip Lug Wide Base (E2)
- 555 **Spare Tire & Wheel:** 20.5x25-20 Ply Tubeless Super Hard Rock Lug Wide Base (E-3)
- 560 **Tire Inflation Kit**
- 605 **Positive Swing Lock:** 360 Degrees (Required to meet NYC Codes).
- 610 **Slewing Rim Sheet Metal Cover**
- 625 **Pintle Hook:** (Front or Rear)
- 635 **Storage Compartment**
- 640 **Alcohol Evaporator**
- 645 **Air Dryer**

Operational Aids

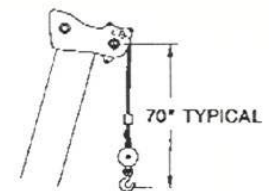
- 720 **P.A.T. Load Moment Operational Aid:** DS350 Microprocessor System Includes: Load Moment Device w/ Audio-Visual Warning, Rated Load, Actual Load, Tare, Radius, Angle, Length & Height of Boom Tip Indicators. Includes Control Lever Lockouts (Magnet Valve Shut-Off Devices).
- 730 **Krueger (HAP) Boom Angle Indicator:** W/ Audio-Visual Warning
- 735 **Krueger (HLAP) Boom Angle, Length, Radius Indicators:** w/ Angle preset and Audio-Visual Warning.
- 740 **P&H Control Lever Lockouts:** (Magnetic Valve Shut-Off Devices) for Anti-Two Block Device and Item 730, or 735.
- 745 **Krueger Load Moment System (Mark IIIE):** Includes - Load Moment Device w/ Audio-Visual Warning, Radius, Angle, Length, w/ angle preset. Includes Control Lever Lockouts (Magnetic Valve Shut-Off Devices).

CHART

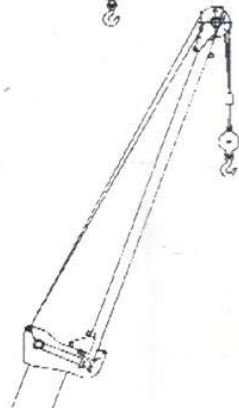
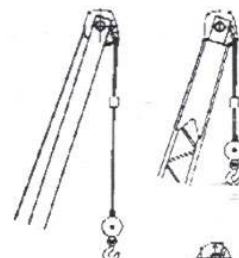
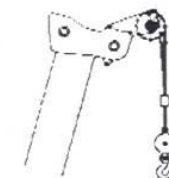
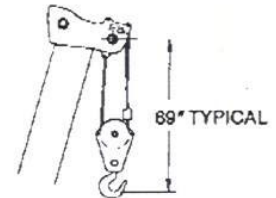
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Axle Loads

VEHICLE WEIGHTS	POUNDS			KILOGRAMS		
	GROSS	FRONT	REAR	GROSS	FRONT	REAR
Basic Carrier	14,404	6,699	7,705	6,539	3,041	3,498
Basic Upper	5,150	1,890	3,260	2,338	858	1,480
Standard Equipment						
91 ft. Boom installed	10,877	14,547	-3,670	4,938	6,604	-1,666
Roading Stabilizer "Easy Ride" installed	1,325	773	552	601	351	250
8300 lb. Counterweight installed	8,306	-3,557	11,863	3,772	-1,615	5,387
Main Winch installed	614	-89	703	279	-40	319
Main Winch Wire Rope	196	-47	243	89	-21	110
Valve Cover installed	97	47	50	44	21	23
Fenders installed	470	235	235	214	107	107
Cummins 6BT5.9 engine w/ R-Shift Transmission	2,432	125	2,307	1,104	56	1,048
20.5 x 25 E-2 Tires installed	3,568	1,784	1,784	1,620	810	810
Front Axle installed	1,652	1,628	24	750	739	11
Rear Axle installed	2,214	-74	2,288	1,005	-34	1,039
Axle Lockout installed	15	4	11	7	2	5
Basic Machine	51,320	23,965	27,355	23,300	10,879	12,421
Adjustments for Options:						
72 ft. Boom installed	-1,820	-2,298	-478	-826	-1,043	-217
Power Plant Options:						
DDA 8.2L Engine w/ R-Shift Transmission	420	5	415	191	3	188
DDA 8.2L Engine w/ P-Shift Transmission	507	22	485	231	11	220
Cummins 6BT5.9 Engine w/ P-Shift Transmission	102	22	80	46	10	36
No-Spin Rear Axle	20	0	20	9	0	9
Tire Options:						
16.00 x 25 Tires	-290	-145	-145	-132	-66	-66
20.5 x 25 E-3 Tires	368	184	184	168	84	84
Main & Aux. Winch installed (w/o Rope)	560	-180	740	254	-82	336
Storage Box installed	75	87	-12	34	40	-6
Counterweights:						
6800 lb. CTWT for 72' Boom w/ Aux. Winch	-1,505	723	-2,228	-684	328	-1,012
7300 lb. CTWT for 72' Boom w/o Aux. Winch	-1,006	515	-1,521	-457	234	-691
7800 lb. CTWT for 91' Boom w/ Aux. Winch	-501	219	-720	227	-100	-327
Additions for Options:						
Front-Mounted Winch installed	338	534	-196	154	242	-88
Flood Lights installed	36	37	-1	16	17	-1
Pintle Hook installed in front	34	52	-18	15	23	-8
Pintle Hook installed rear	34	-18	52	15	-8	23
Diesel Heater installed	-44	9	35	20	4	16
Propane Heater installed	52	10	42	23	4	19
Air Dryer installed	23	-7	30	10	-3	13
Aux. Winch Rope (360' x .50 Dia.)	166	-73	239	75	-33	108
Boom Attachments (on 91 ft. boom):						
Auxiliary Boom Point Sheave installed	91	277	-186	41	126	-85
25 ft. Lattice Extension mtd. side of boom	816	1,321	-505	370	600	-230
25-42.5 ft. Lattice Extension mtd. side of boom	1,480	2,284	-804	671	1,036	-365
10 ton Hook Block 1 sheave	325	953	-628	148	433	-285
28 ton Hook Block 4 sheaves	500	1,458	-958	227	662	-435
5 ton Hook	121	361	-240	55	164	-109
Boom Attachments (on 72 ft boom):						
Auxiliary Boom Point Sheave installed	91	241	-150	41	109	-68
25 ft. Lattice Extension mtd. side of boom	816	994	-178	370	452	-82
25-42.5 ft. Lattice Extension mtd. side of boom	1,480	2,284	-804	671	1,036	-365
A-Frame Jib underslung	546	926	-380	248	420	-172
10 ton Hook Block 1 sheave	325	823	-498	148	374	-226
28 ton Hook Block 2 sheaves	500	1,458	-958	227	662	-435
5 ton Hook	121	313	-192	55	142	-87



DIMENSIONS TYPICAL FOR ALL ATTACHMENTS



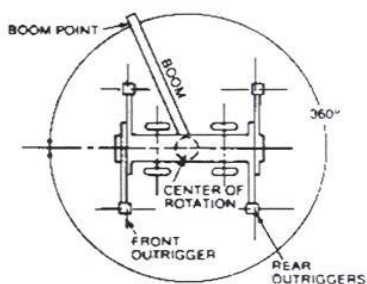
MAIN & AUXILIARY HOIST REEVING 6 X 25									
1/2" DIA. WIRE ROPE BREAKING STRENGTH 26,600 LBS.									
PARTS OF LINE	1	2	3	4	5	6	7	8	9
MAXIMUM LOAD	7600	15200	22800	30400	38000	45600	53200	56000	
MAIN & AUXILIARY HOIST REEVING 8 X 19									
1/2" DIA. WIRE ROPE BREAKING STRENGTH 23,400 LBS.									
PARTS OF LINE	1	2	3	4	5	6	7	8	9
MAXIMUM LOAD	4650	9300	13950	18600	23250	27900	32550	37200	41850

CHART
2

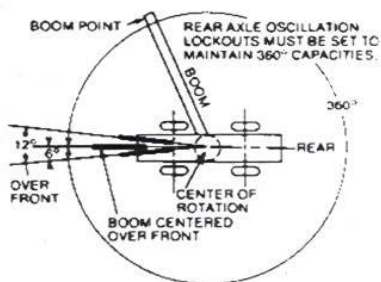
Range Diagrams Standard 91 Foot Powered Boom

areas of operation

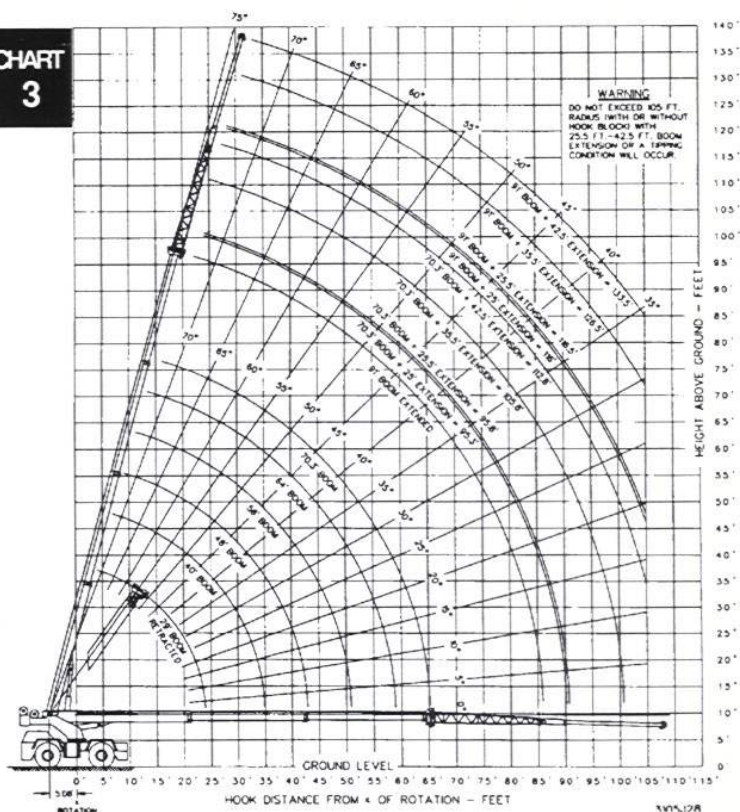
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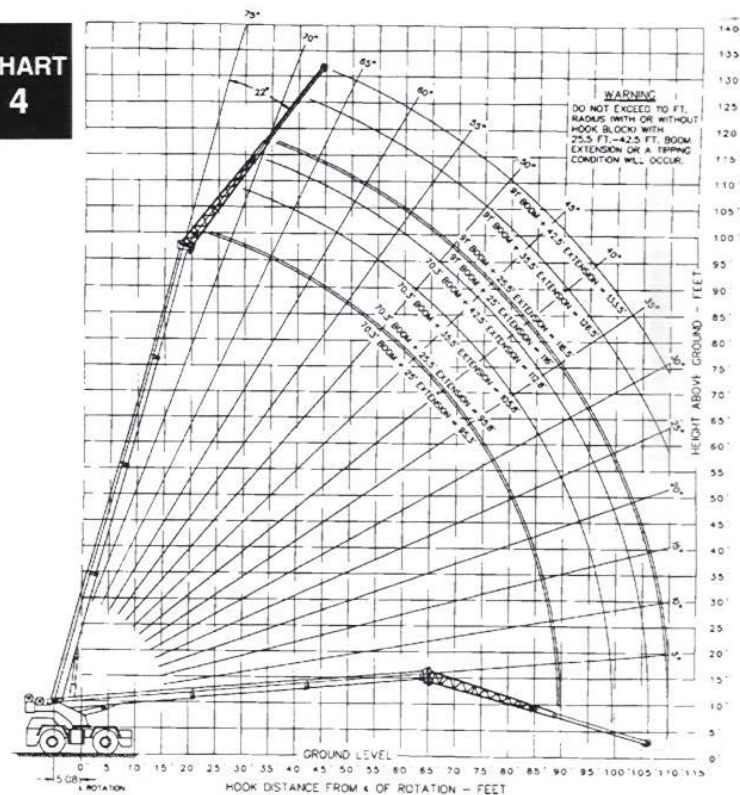
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**CHART
3**



**CHART
4**



Standard 91Foot Powered Boom Century 128 - Rated Crane Loads in Pounds

CHART 5

INFORMATION:

1. Crane load ratings do not exceed 85% of tipping load.
2. Ratings above the 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 stored lattice extension or jib, optional attachments, hooks and hookblocks (see Deductions Chart on page 12). Weights of slings and all other load handling devices shall be considered part of the load.
4. Crane load ratings with outriggers are based on the outriggers fully extended and set to a distance of 9 feet from the longitudinal axis of the carrier to the outrigger float pin connection with all load removed from carrier wheels.

CHART 6

Standard 91Foot Powered Boom Century 128 - Rated Crane Loads in Pounds

CHART 7

22°
OFFSET

22° OFFSET EXTENSION IN POUNDS WITH OUTRIGGERS EXTENDED AND SET

LATTICE EXTENSION WITH PINNED SECTION RETRACTED

LATTICE EXTENSION WITH PINNED SECTION EXTENDED

OPERATING RADIUS IN FT.	25 FT. OR 25.5 FT.			OPERATING RADIUS IN FT.	35.5 FT.			OPERATING RADIUS IN FT.	42.5 FT.			OPERATING RADIUS IN FT.	35.5 FT.			OPERATING RADIUS IN FT.	42.5 FT.						
	SEE DEDUCTIONS				SEE DEDUCTIONS				SEE DEDUCTIONS				SEE DEDUCTIONS				SEE DEDUCTIONS						
FOR 95.3 OR 95.8 FT. BOOM ONLY	FOR ALL BOOM LENGTHS UP TO 95.3 OR 95.8 FT.			FOR 105.8 FT. BOOM ONLY	FOR ALL BOOM LENGTHS UP TO 105.8 FT.			FOR 112.8 FT. BOOM ONLY	FOR ALL BOOM LENGTHS UP TO 112.8 FT.			FOR 116 OR 116.5 FT. BOOM ONLY	FOR ALL BOOM LENGTHS UP TO 116 OR 116.5 FT.			FOR 126.5 FT. BOOM ONLY	FOR ALL BOOM LENGTHS UP TO 126.5 FT.			FOR 133.5 FT. BOOM ONLY	FOR ALL BOOM LENGTHS UP TO 133.5 FT.		
	RATED LOAD IN POUNDS				RATED LOAD IN POUNDS				RATED LOAD IN POUNDS				RATED LOAD IN POUNDS				RATED LOAD IN POUNDS				RATED LOAD IN POUNDS		
	360°				360°				360°				360°				360°				360°		
35	74	7800		35				35				35				35				35			
40	71	7300		40	75	5400		40				40				40				40			
45	67	6900		45	72	5100		45	75	4300		45	74	6800		45				45			
50	63	6500		50	69	4800		50	72	4100		50	71	6300		50	74	5000		50			
55	60	6000		55	65	4500		55	69	3900		55	68	5900		55	72	4800		55	74	4000	
60	56	4900		60	62	4300		60	66	3700		60	65	5300		60	69	4600		60	72	3800	
65	51	4100		65	58	4100		65	62	3500		65	61	4500		65	66	4400		65	69	3700	
70	46	3300		70	54	3900		70	59	3300		70	58	3700		70	64	4200		70	66	3500	
75	41	2700		75	50	3300		75	55	3100		75	55	3100		75	61	3600		75	64	3400	
80	34	2200		80	46	2700		80	51	3000		80	51	2600		80	57	3000		80	61	3300	
85	27	1700		85	41	2200		85	47	2600		85	47	2100		85	54	2600		85	58	2800	
				90	35	1800		90	42	2100		90	43	1700		90	50	2100		90	55	2400	
				95	27	1400		95	37	1700		95	38	1400		95	47	1800		95	52	2000	
								100	30	1400		100	32	1000		100	42	1400		100	48	1700	
								105	19	1000		105				105	38	1100		105	44	1400	
																110				110	40	1100	

NOTE:
1. When boom is not fully extended,

NOTE:

- When boom is not fully extended, use only boom angles to determine load rating.
- For boom angles not shown, use rating of next lower boom angle.
- For bucket ratings on 35.5 ft. and 42.5 ft. extensions, deduct 20% from load ratings.

WARNING: Do not exceed 105 ft. radius (with or without hook block) with 25.5 ft. - 42.5 ft. boom extension or a tipping condition will occur.

WARNING: Deductions from Offset Load Ratings Must be Applied According to DEDUCTION TABLE Shown on Page 12.

Load Ratings "On Tires" With 91 foot Boom

CHART 8

OR PAD RADIUS IN FT.	20.50 X 25-20 PLY TIRES			
	STATIONARY		PICK & CARRY BOOM CENTERED OVER FRONT	
	± 6° ARC OVER FRONT	360° ARC	CREEP	2 1/2 MPH
10	32500	25600	27200	18800
12	27900	19200	23500	16000
15	20800	13100	19100	12800
20	12700	7900	12700	9100
25	8600	5200	8600	6700
30	6100	3400	6100	5000
35	4400	2200	4400	3700
40	3200	1400	3200	2700
45	2300		2300	1900
50	1600		1600	1200

OR PAD RADIUS IN FT.	16.00 X 25-24 PLY TIRES			
	STATIONARY		PICK & CARRY BOOM CENTERED OVER FRONT	
	± 6° ARC OVER FRONT	360° ARC	CREEP	2 1/2 MPH
10	35800	25500	30200	25400
12	30800	18700	26100	21900
15	20700	12800	20700	17700
20	12700	7700	12700	12700
25	8600	5000	8600	8600
30	6100	3300	6100	6100
35	4400	2100	4400	4400
40	3200	1300	3200	3200
45	2300		2300	2300
50	1600		1600	1600

WARNINGS:

- When transporting a load, machine must be on a firm, level surface with mechanical houselock engaged. The load must be centered over front of machine and restrained from swinging. See "Areas of Operation" on page 6 for working ranges.
- Crane load rating on tires apply only when rear axle lockouts are engaged when swinging 360°.
- Do not attempt lifts on tires with jib or extension erected.
- Lift with shortest boom possible for each radius.

DEFINITIONS:

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

INFORMATION:

- Ratings above the heavy lines are based on structural competence and not on machine stability.
- It is recommended that outriggers be extended as far as possible and clear of ground when lifting on tires.
- Stability ratings do not exceed 75% of tipping loads.

CHART 10

TIRE INFLATION

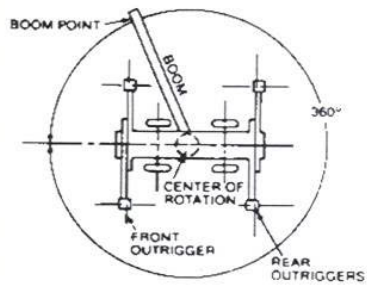
SIZE	STATIC & CREEP	2 1/2 MPH	TRAVEL
16.00 x 25-24 PR	100 PSI	100 PSI	75 PSI
20.50 x 25-20 PR	80 PSI	65 PSI	50 PSI

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

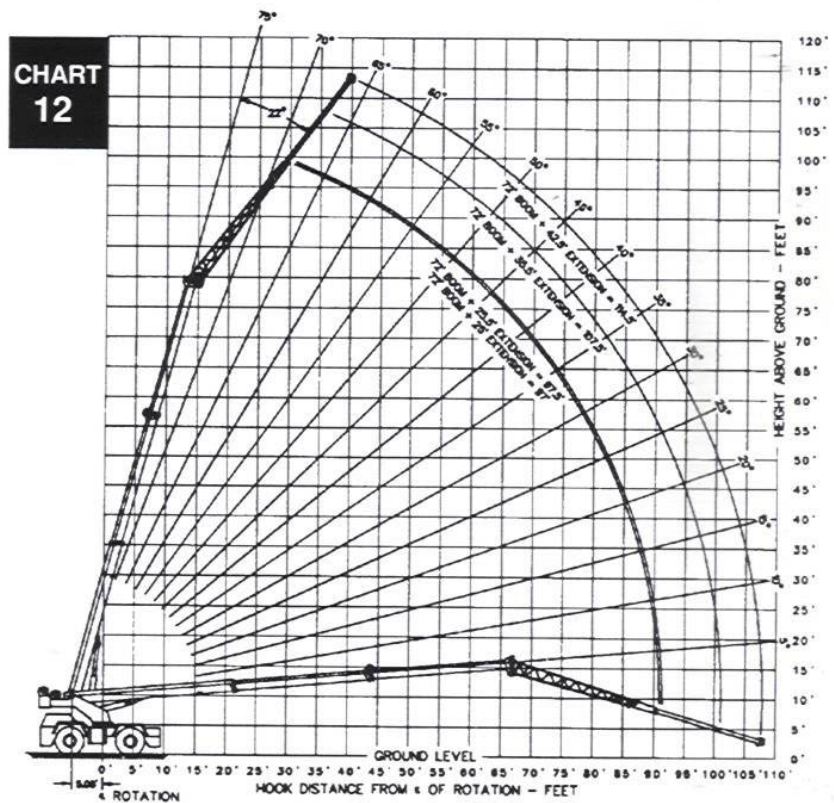
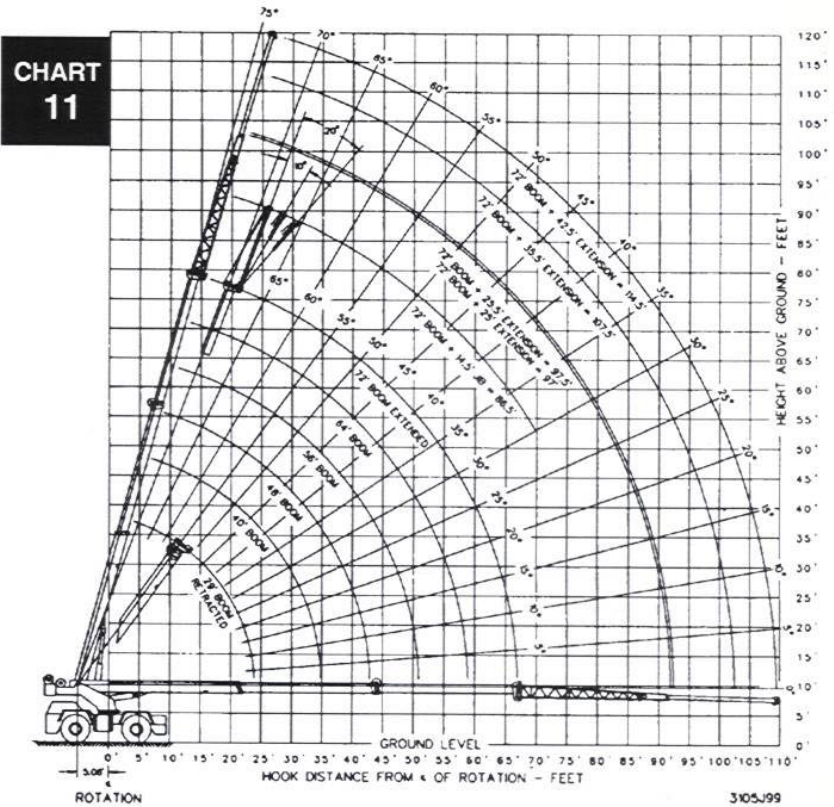
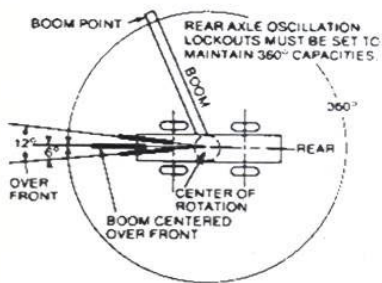
CHART 9

CHART 11

ON OUTRIGGERS



ON TIRES



Optional 72 Foot Powered Boom Century 128 - Rated Crane Loads in Pounds

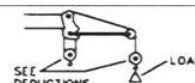
CHART
13

POWERED BOOM RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED												
POWERED BOOM LENGTH												
OPERATING RADIUS IN FT.	29 FT.	40 FT.	48 FT.	56 FT.	64 FT.	72 FT.	SEE DEDUCTIONS					
	360°	360°	360°	360°	360°	360°						
10	63	56000	71	38100	75	37400						
12	58	46700	68	38100	72	37400						
15	51	36200	63	36200	68	35200	72	32800	75	30300		
20	34	26000	55	26000	62	26000	67	26000	70	24800	73	21700
25			45	20100	54	20100	61	20100	65	20100	69	18400
30			32	16100	46	16100	54	16100	60	16100	64	15700
35					37	12700	47	12700	54	12700	60	12700
40					23	10000	39	10000	48	10000	54	10000
45							30	8100	42	8100	49	8100
50							13	6600	34	6600	43	6600
55									23	5500	36	5500
60											28	4600
65											16	3900

INFORMATION:

- Crane load ratings do not exceed 85% of tipping load.
- Ratings above the line are based on the machine's hydraulic or structural competence and not on machine stability.
- Deductions must be made from rated loads for stowed lattice extension or jib, optional attachments, hooks and hookblocks (see Deductions Chart on page 12). Weights of slings and all other load handling devices shall be considered part of the load.
- Crane load ratings with outriggers are based on the outriggers fully extended and set to a distance of 9 feet from the longitudinal axis of the carrier to the outrigger float pin connection with all load removed from carrier wheels.

MAXIMUM JIB LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED



MIN. BOOM ANGLE	JIB ANGLE		
	0°	10°	20°
75°	13000	11200	9500
70°	12000	10500	8500
65°	11000	9600	7800
60°	8500	8000	7200
55°	6800	6500	6200
50°	5600	5400	5200
45°	4700	4500	4400
40°	4000	3900	3800
35°	3500	3400	3400
30°	3100	3100	3100

JIB CAPACITY NOTES:

- Jib load ratings above the heavy line are based on structural competence of the machine. Ratings below the line are based on stability of the machine and do not exceed 85% of tipping load with fully extended outriggers. Use of outriggers are required when boom is equipped with a 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 below 30° occurs rapidly.

WARNINGS:

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

CHART
15

LATTICE EXTENSION LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED

25 FT. LATTICE EXTENSION				25.5 - 42.5 FT. LATTICE EXTENSION			
OPERATING RADIUS IN FT.	25 FT.	25.5 FT.	35.5 FT.	42.5 FT.	OPERATING RADIUS IN FT.	25.5 FT.	35.5 FT.
	SEE DEDUCTIONS	SEE DEDUCTIONS	SEE DEDUCTIONS	SEE DEDUCTIONS		SEE DEDUCTIONS	SEE DEDUCTIONS
FOR 97 FT. BOOM ONLY	FOR ALL BOOM LENGTHS UP TO 97 FT.	FOR 97.5 FT. BOOM ONLY	FOR ALL BOOM LENGTHS UP TO 97.5 FT.	FOR 107.5 FT. BOOM ONLY	FOR 114.5 FT. BOOM ONLY	FOR ALL BOOM LENGTHS UP TO 114.5 FT.	FOR ALL BOOM LENGTHS UP TO 114.5 FT.
	360°	360°	360°	360°		360°	360°
27	75	13000	27	75	13000	27	
30	73	12300	30	73	11900	30	75
35	70	11100	35	70	10700	35	72
40	66	10100	40	66	9700	40	69
45	63	8700	45	63	8300	45	66
50	59	7300	50	59	6900	50	63
55	56	6100	55	56	5800	55	60
60	52	5200	60	52	4900	60	57
65	47	4500	65	48	4100	65	53
70	43	3900	70	43	3500	70	49
75	38	3300	75	38	2900	76	45
80	32	2900	80	33	2500	80	41
85	25	2500	85	26	2100	85	37
90	15	2100	90	16	1700	90	31
						95	25
						100	16
						105	20

NOTE:

- WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES TO DETERMINE LOAD.
- FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.
- FOR BUCKET RATINGS ON 35.5 AND 42.5 FT. EXTENSIONS, DEDUCT 20% FROM LOAD RATINGS.

Optional 72 Foot Powered Boom Century 128 - Rated Crane Loads in Pounds

CHART 16

**22°
OFF SET**

LATTICE EXTENSION LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED

25 FT. LATTICE EXTENSION

25.5 - 42.5 FT. LATTICE EXTENSION

OPERATING RADIUS IN FT.

FOR 97 FT. BOOM ONLY

FOR ALL BOOM LENGTHS UP TO 97 FT.

RATED LOAD IN POUNDS

360°

OPERATING RADIUS IN FT.

FOR 97.5 FT. BOOM ONLY

FOR ALL BOOM LENGTHS UP TO 97.5 FT.

RATED LOAD IN POUNDS

360°

OPERATING RADIUS IN FT.

FOR 107.5 FT. BOOM ONLY

FOR ALL BOOM LENGTHS UP TO 107.5 FT.

RATED LOAD IN POUNDS

360°

OPERATING RADIUS IN FT.

FOR 114.5 FT. BOOM ONLY

FOR ALL BOOM LENGTHS UP TO 114.5 FT.

RATED LOAD IN POUNDS

360°

35	74	8200
40	71	7700
45	67	7300
50	64	6900
55	60	6500
60	56	5600
65	52	4800
70	47	4100
75	42	3500
80	36	3000
85	28	2600
90	16	2200

35	74	7900
40	71	7400
45	67	7000
50	64	6600
55	60	6200
60	56	5200
65	52	4400
70	47	3700
75	42	3100
80	36	2600
85	28	2200
90	16	1800

35		
40	75	5500
45	72	5200
50	69	4900
55	66	4600
60	63	4400
65	59	4200
70	55	4000
75	52	3600
80	47	3100
85	42	2600
90	37	2200

35		
40		
45	75	4300
50	72	4100
55	69	3900
60	66	3700
65	63	3500
70	60	3300
75	56	3100
80	53	3000
85	49	2900
90	44	2500

NOTE:

1. Stability ratings do not exceed 85% of tipping loads.
2. When boom is not fully extended, use only boom angles to determine load.
3. For boom angles not shown, use ratings of next lower boom angle.

95	30	1800
100	18	1500

NOTE:

1. Stability ratings do not exceed 85% of tipping loads.
2. When boom is not fully extended, use only boom angles to determine load.
3. For boom angles not shown, use ratings of next lower boom angle.

WARNING:

1. Deductions from offset extension load ratings must be applied according to DEDUCTION TABLE shown on page 12.
2. Do not exceed 105 foot radius (with or without hook block) with 25.5 - 42.5 foot boom extension or a tipping condition will occur.

NOTES:

1. For bucket ratings on 35.5 foot and 42.5 foot extensions, deduct 20% from load ratings.

Load Ratings "On Tires" With 72 foot Boom

CHART 17

17

20.50 X 25-20 PLY TIRES				
OPERATING RADIUS FT.	STATIONARY		PICK & CARRY BOOM CENTERED OVER FRONT	
	± 6° ARC OVER FRONT	360° ARC	CREEP	2 1/2 MPH
10	33000	24600	28000	19500
12	28600	18200	24200	16700
15	20000	12600	20000	13600
20	12400	7800	12400	10100
25	8700	5400	8700	7900
30	6400	3800	6400	6100
35	4900	2700	4900	4900
40	3700	1900	3700	3700
45	2900	1400	2900	2900
50	2200		2200	2200
55	1700		1700	1700
60	1300		1300	1300

See Chart No. 10, page 8, for proper tire inflation.

OPERATION OF THIS EQUIPMENT IN EXCESS OF RATED LOADS AND DISREGARD OF INSTRUCTIONS IS AN UNSAFE PRACTICE AND WILL RESULT IN DENIAL OF WARRANTY CLAIMS.

CHART 18

16.00 X 25-24 PLY TIRES				
OPERATING RADIUS FT.	STATIONARY		PICK & CARRY BOOM CENTERED OVER FRONT	
	± 6° ARC OVER FRONT	360° ARC	CREEP	2 1/2 MPH
10	36400	23900	30900	26100
12	29300	17700	26800	22600
15	19900	12300	19900	18600
20	12300	7600	12300	12300
25	8700	5300	8700	8700
30	6300	3700	6300	6300
35	4800	2600	4800	4800
40	3700	1800	3700	3700
45	2900	1300	2900	2900
50	2200		2200	2200
55	1700		1700	1700
60	1300		1300	1300

WARNINGS:

1. When transporting a load, machine must be on a firm, level surface with mechanical houselock engaged. The load must be centered over front of machine and restrained from swinging. See "Areas of Operation" on page 6 for working ranges.
2. Crane load rating 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 with shortest boom possible for each radius.

DEFINITIONS:

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

INFORMATION:

1. Ratings above the heavy lines 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 75% of tipping loads.

DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS

CHART
19

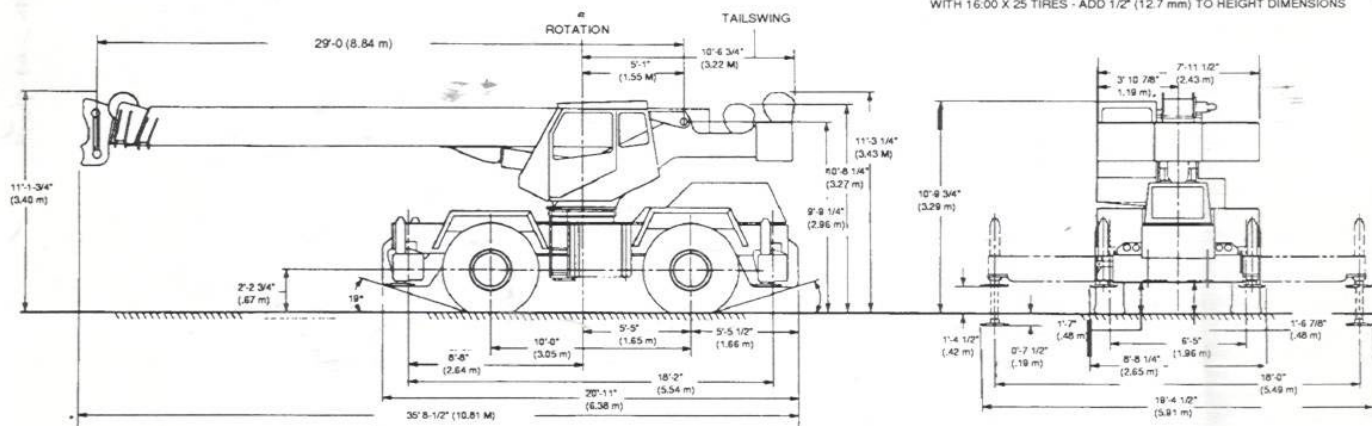
DESCRIPTION		HOOK BLOCK ON POWERED BOOM POINT				
		WITHOUT HOOK BLOCK ON BOOM POINT	5 TON	10-28 TON	5 TON WITH AUXILIARY SHEAVE	10-28 TON WITH AUXILIARY SHEAVE
HOISTING LOAD FROM POWERED BOOM	HOOK BLOCK WEIGHT	-----	150	550	250	650
	25 FT. LATTICE EXTENSION	-----	200	600	300	700
	STOWED	-----	1200	1600	1300	1700
	ERECTED ONLY	-----	1450	1850	1550	1950
	5 TON BLOCK	-----	1850	2250	1950	2350
	25.5 FT. LATTICE EXTENSION	-----	250	650	350	750
	STOWED	-----	2050	2450	2150	2550
	ERECTED ONLY	-----	2300	2700	2400	2800
	5 TON BLOCK	-----	2700	3100	2800	3200
	10 TON BLOCK	-----	2700	3100	2800	3200
HOISTING LOAD FROM EXTENSION OR JIB	35.5 FT. LATTICE EXTENSION	-----	2250	2650	2350	2750
	ERECTED ONLY	-----	2550	2950	2650	3050
	5 TON BLOCK	-----	3000	3400	3100	3500
	10 TON BLOCK	-----	3000	3400	3100	3500
	42.5 FT. LATTICE EXTENSION	-----	2450	2850	2550	2950
	ERECTED ONLY	-----	2800	3200	2900	3300
	5 TON BLOCK	-----	3300	3700	3400	3800
	10 TON BLOCK	-----	3300	3700	3400	3800
	14.5 FT. JIB	-----	300	700	400	800
	ERECTED ONLY	-----	800	1200	900	1300
	5 TON BLOCK	-----	1000	1400	1100	1500
	10 TON BLOCK	-----	1300	1700	1400	1800
	25 FT. LATTICE EXTENSION	-----	150	250	300	550
	5 TON BLOCK	-----	350	450	500	750
	10 TON BLOCK	-----	350	450	500	750
	25.5 FT. LATTICE EXTENSION	-----	150	250	300	550
	5 TON BLOCK	-----	350	450	500	750
	10 TON BLOCK	-----	350	450	500	750
	35.5 FT. LATTICE EXTENSION	-----	150	250	300	500
	5 TON BLOCK	-----	350	450	500	700
	42.5 FT. LATTICE EXTENSION	-----	150	250	300	450
	5 TON BLOCK	-----	350	450	500	650
	10 TON BLOCK	-----	350	450	500	650
	14.5 FT. JIB	-----	150	250	300	600
	5 TON BLOCK	-----	350	450	500	800

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

Dimensions

DIMENSIONS ARE WITH STANDARD TIRE SIZE - 20.5 x 25

WITH 16.00 X 25 TIRES - ADD 1/2" (12.7 mm) TO HEIGHT DIMENSIONS



TIRES

	20.5X25	16.00 X 25
VEHICLE TURNING DIAMETER - 4 WHEEL STEER	35' - 10" (10.67 m)	38' - 4" (11.68 m)
FRONT AXLE STEER	63' - 1" (19.23 m)	69' - 10" (21.29 m)
VEHICLE CLEARANCE DIAMETER - 4 WHEEL STEER	39' - 10" (12.14 m)	43' - 1" (13.13 m)
- FRONT AXLE STEER	67' - 10" (22.65 m)	74' - 6" (22.70 m)

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

Address Inquiries to:



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TXH-884-3