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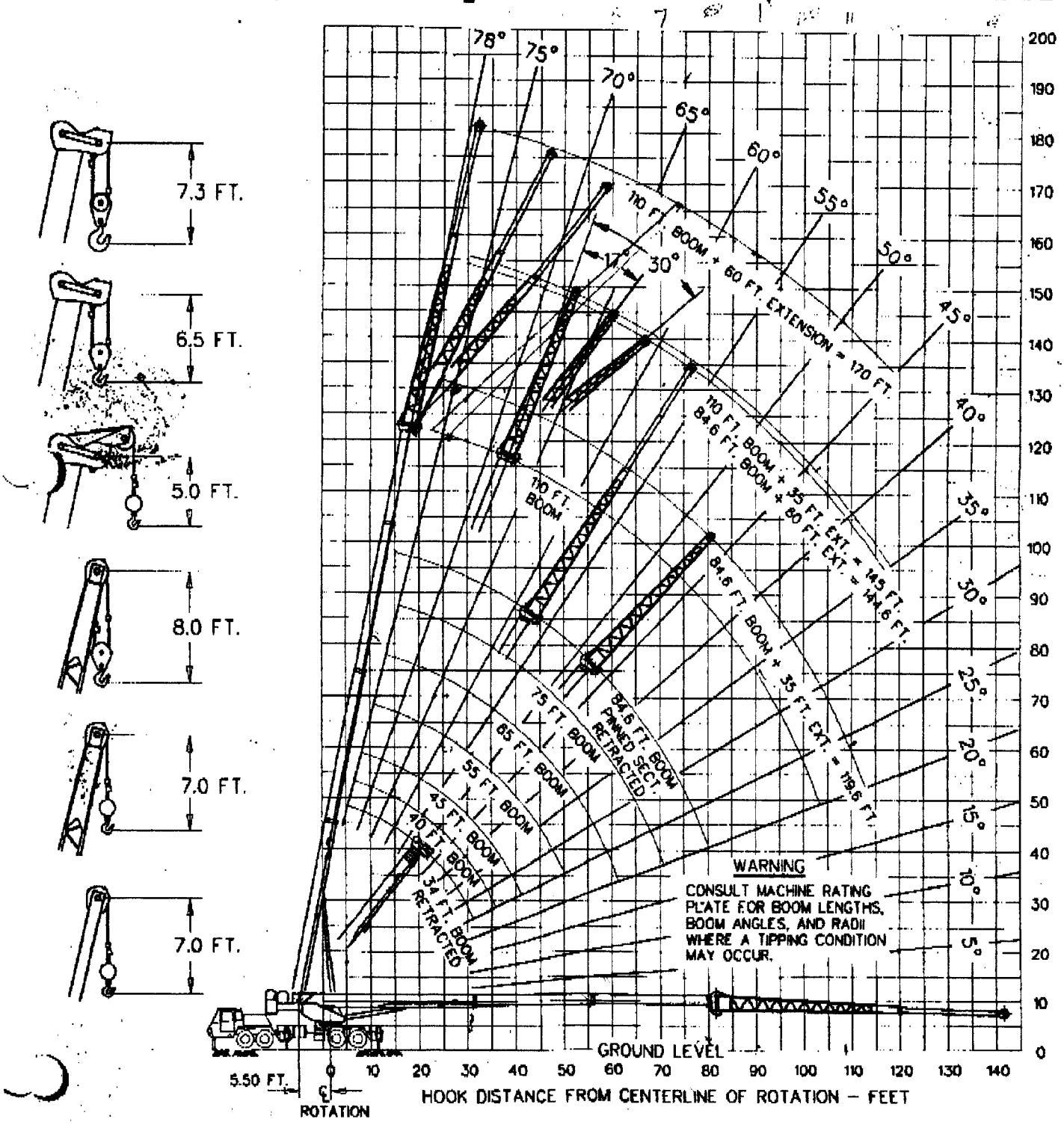
P&H® CENTURY T-500

50-ton hydraulic truck crane
170-ft. (51.8 m) boom and extension



Specificati

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PUMPS: DETROIT DIESEL ALLISON 6L71TA ENGINE: One Tandem gear pump operating at 2480 full load RPM, with the first section providing 49.2 GPM (186 liter/min.) to the boom hoist and telescope circuits, and the second section providing 37.7 GPM (143 liter/min.) to the main and auxiliary winch circuit.

One Tandem gear pump operating at 2480 full load RPM, with the first section providing 32.1 GPM (121 liter/min.) to the swing circuit, and the second section providing 32.1 GPM (121 liter/min.) to the outrigger or winch boost circuits.

One Vickers vane pump, driven from the engine accessory drive, operating at 2100 full load RPM, provides 19.5 GPM (74 liter/min.), regulated to 8 GPM (30 liter/min.) to the steering circuit.

OIL RESERVOIR: 156 gallons (590 liter) mounted at front, right side of engine frame.

OIL COOLER: Oil to air, tube and fin type with internal turbulator.

CONTROL VALVES (STANDARD): One single-spool valve for swing circuits.

One two-spool valve with one spool for boom hoist and one spool for telescope circuits.

One single-spool valve for main winch circuit.

CONTROL VALVES (OPTIONAL): One two-spool valve with one spool for main winch and one spool for auxiliary winch circuits.

One single-spool valve for independent winch circuit.

SWING UNIT: Hydraulic motor driving through reduction gear reducer to pinion gear. 360° continuous rotation to 2.4 RPM Full Load.

SWING GEAR: Single shear ball swing bearing with integral spur gear.

SWING BRAKE: Spring applied, hydraulically released, internal 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: Two position (front and rear) pin-in-hole lock manually engaged with house lock lever in cab is standard. A positive 360° position lock is optional.

CARRIER

TYPE: P&H 8 x 4

WEIGHT: Including ball bearing swing circle, hydraulic outriggers and standard tires and Caterpillar 3208T engine. 33,457 lbs. (15,156 kg.)

FRAME: Rectangular frame members of 80,000 P.S.I. (5600 kg/cm²) yield strength alloy steel, reinforced with box constructed cross-members of 80,000 psi (5600 kg/cm²) yield strength alloy steel. Engine frame is channel construction of 47,000 P.S.I. (3300 kg/cm²) yield strength alloy steel.

OUTRIGGERS: Hydraulic out and down type. Eight double acting hydraulic cylinders for independent horizontal and vertical motion of each beam operated from the operator's cab or at each side of the carrier. Each vertical cylinder is equipped with a holding valve.

OUTRIGGER BEAMS: 80,000 P.S.I. yield strength alloy steel box extending to a maximum spread of 23' 7" (7.2 meters) from centerline of float to centerline float with the machine fully raised on the outriggers. Retracted width of the outriggers without floats is 9' 10" (3.0 M).

OUTRIGGER FLOATS: Individually removable floats with storage on carrier. Float size 24" (610 mm) dia. with effective nominal surface area of 452 sq. in. (2920 cm²) per float.

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

CAB: One man, left side, low profile fully enclosed all-weather steel cab with full vision safety glass. Cab is cushion mounted for vibration isolation.

CAB EQUIPMENT: Contains all controls and instrumentation, including illuminated instrument panel with speedometer, tachometer, hour meter, voltmeter, air pressure gauges, low air pressure indicator lights, fuel gauge, oil pressure gauge, water temperature gauge, air horns, west coat rear view mirrors, electric windshield wiper, engine conditioning warning system with noise alarm and warning light for high temperature and low oil pressure, heater and defroster. Deluxe operator's seat with torsion suspension and vinyl covering.

LIGHTS: Dual headlights, taillights, stop lights, front and rear direction signals with emergency flashers, rear license plate light, front, rear and side with reflectors, dome light, and front and rear

CARRIER STANDARD EQUIPMENT: Front bumper, full fenders, sliding engine hood, low hooks front and rear, carrier mounted boom rack, dunnage boxes, float storage racks and back-up warning device, windshield washer, and fire extinguisher.

CARRIER OPTIONAL EQUIPMENT: Cold starting aid, rotating beacon light, spare tire and wheel, pintle hook, alcohol evaporator, air dryer, tire inflation kit, and hydraulically operated front stabilizer with 24.0 inch (601 mm) diameter float. Two 8D batteries with a reserve capacity of 430 min. and CCA at 0°F of 900 amps.

BRAKES; SERVICE : Front Axles — air operated, cam actuated drum and shoe type.

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

BRAKES; PARKING: Cam actuated, drum and shoe type on rear axles. Spring applied, air released for safety.

FRONT AXLE: Tubular tandem.

REAR AXLE: Single reduction with interaxle differential. Ratio 6.143:1.

SUSPENSION: Front Axle — Four spring mounted tandem with torque rods.

Rear Axle — Solid bogie mounted tandem with torque rods.

TRANSMISSIONS: Eaton Corp. Fuller Road Ranger RTO-11613, 13 speeds forward, 2 reverse, used with Detroit Diesel Allison 6L71TA Engine.

Eaton Corp. Fuller Road Ranger RT6613, 13 speeds forward, two reverse, used with Caterpillar 3208T Engine.

CLUTCH: Spicer 14 in. (356 mm) two plate with asbestos linings, coaxial torque dampener, upshift clutch brake and air actuation assist.

RADIATOR: Water to air, tube and fin type core. Thermostatic temperature controlled.

AIR CLEANER: Donaldson single-stage primary dry air cleaner with "Duralife" filter media.

MUFFLER: Donaldson — muffler and resonator.

ELECTRICAL: 24 volt system with negative ground. Two N150 batteries with a reserve capacity of 265 min. and CCA at 0°F of 840 amps. Wire harnesses have environmentally sealed Deutsch connectors.

FUEL TANK: FWHA approved steel tank, 80 gal. (303 liter) mounted on right side of carrier, behind front outriggers.

TIRES: Standard — Front 15.00 R 22.5 18 ply — rear 11.00 x 20 14 ply-duals. Optional — Front 16.00 R 22.5 18 ply — rear 12. 00 x 20 16 ply-duals.

POWER PLANTS:

Make: Caterpillar 3208T
Max. H.P.: 250 hp (186 kw) at 2800 rpm.
Max. Torque: 840 ft./lb. (88.5 kg. - m) at 1400 rpm.
No. Cyl.: 8 cylinder, 4.5 in. (114.3 mm) bore, 5.0 in. (127 mm) stroke.
Disp: 636 cu. in. (10.42 liter).
Cycle: 4
Alternator: Delco 24 volt, 65 amp.
Aspiration: Turbocharged.
Air Compressor: Bendix TU-FLO 501.
*Theoretical Performance:
Low Gear 1.6 mph (2.6 km/hr.) 41% grade.
High Gear 49 mph (79 km/hr.) .1% grade.

Make: Detroit Diesel Allison 6L71TA.

Max. HP: 265 hp (198 kw) at 2100 rpm.

Max. Torque: 737 ft./lbs. (101.9 kg./m) at 1400 rpm.

No. Cyl.: 6 cyl., 4.25 in. (107.9 mm) bore, 5.0 in. (127 mm) stroke.

Disp: 426 cu. in. (6.98 liter)

Cycle: 2

Alternator: Delco 24 volt, 85 amp.

Aspiration: Turbocharged.

Air Compressor: Bendix TU-FLO 501

*Theoretical Performance:

Low Gear 2.2 mph (3.5 km/hr.) 35% grade.

High Gear 51 mph (82 km/hr.) 1.1% grade.

*Theoretical performance is based on the following:

GVW: 77,000 lbs. (34,920 kg.)

Front Tires: 15.00 R 22.5

Rear Tires: 12.00 x 20

Counterweight: 9000 lbs. (3,530 kg.)

Speed and gradeability will vary due to engine performance, vehicle [illegible] and optional tires. Gradeability based on SAE J688.

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specifications

BOOM: 34 ft. (10.4 m) retracted to 110 ft. (33.5 m) extended length, four section boom consisting of a boom base, two hydraulically extended and retracted sections and a fourth pinned section which can be hydraulically extended and retracted. Boom point has five 17.362" (44 mm) dia. main metallic sheaves with roller bearings and idler sheaves with bronze bearings.

EXTENSION (OPTIONAL): 35 ft. (10.7 m) swing around lattice structure boom extension with a single metallic sheave. It can be put into operating condition by pivoting from its stored position on right side of the boom base section. Self-storing pins connect extension to boom head. In the operating position the extension is offset 2" from the main boom.

TELESCOPIC BOOM EXTENSION (OPTIONAL): 35 ft. (10.7 m) to 60 ft. (18.3 m) swing around lattice structure boom extension with a welded four plate telescope section with a single metallic sheave. It can be put into operating condition by pivoting from its stored position on the right side of the boom base section and pinned to the boom head. Telescopic section is then extended on rollers and pinned. In the operating position the extension is offset 2" from the main boom.

EXTENSION OFFSET MECHANISM (OPTIONAL): Pivoting links which allow either boom extension above to be offset to 17° or 30° from the main boom.

AUXILIARY SHEAVE (OPTIONAL): Boom point mounted with single metallic sheave.

HOOK BLOCKS (OPTIONAL): 50 ton (45.4 metric ton) 5 sheave with swivel hook and safety latch. Sheaves are for .75 inch (19 mm) wire rope.

20 ton (18.1 metric ton) 1 sheave with swivel hook and safety latch. Sheave is for .75 inch (19 mm) wire rope.

BALL HOOK (OPTIONAL): 8.5 ton (7.7 metric ton) weighted swivel hook with safety latch, .75 inch (19 mm) wire rope.

UPPERSTRUCTURE

OPERATOR'S CAB: Fully enclosed, all-weather steel cab with full-vision safety glass and hinged top window with tinted glass. Cab is cushion mounted for vibration isolation.

OPERATOR'S CAB STANDARD EQUIPMENT: Contains all crane function controls. Front control console includes: engine water temperature gauge, engine oil pressure gauge, hydraulic oil temperature gauge, air pressure gauge, fuel gauge, volt meter, winch high speed indicators; anti-two-block warning, boom angle indicator, dash light, and electrical horn. Deluxe operator's seat with torsion suspension and vinyl covering, windshield wiper, fire extinguisher, and seat belts.

OPERATOR'S CAB OPTIONAL EQUIPMENT: Main winch drum turn indicator, diesel or propane heater, defroster fan, windshield washer, roof window wiper, rotary roof beacon and tachometer, hand control lever for independent main and auxiliary winch.

CONTROLS: Front console mounted hand control levers for swing, telescope, auxiliary winch (optional), main winch, and boom hoist. Front floor mounted foot pedals for swing brake, boom hoist, and engine throttle. Front console instrument panel contains ignition switch.

Side console has hand throttle control, swing lock control, and electrical outrigger panel — all standard.

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. Toggle switches used in operator's cab are environmentally sealed.

THROTTLE CONTROL: Variable air control for foot operation, and positive position cable control for hand use.

MISCELLANEOUS UPPER OPTIONS: Load indicating device, flood lights, 360 degree swing lock, winch spooling roller, anti-two-block and load moment shutdown device.

COUNTERWEIGHTS: 8,000 lbs. (3,630 kg.) standard, non-removable type.

8,000 lbs. (3,630 kg.) with 7,525 lbs. (3,414 kg.) removable with a self-contained raising or lowering device using the winch.

1,080 lbs. (490 kg.) auxiliary counterweight to be used on units without an auxiliary winch.

MAIN WINCH (STANDARD): P&H Model 1561 with two speed motor, mounted to rear of revolving frame. Planetary gearing and equal speed, power raising and lowering. Infinitely variable speed control. Spring applied hydraulically released load holding multi-disc brake is automatic.

Drum: 15 in (381 mm) pitch diameter, 18.5 in. (470 mm) wide, 23.5 in. (597 mm) flange diameter.

Cable: .75 in (19 mm) diameter 6 x 25 extra improved plow steel with 7 x 7 I.W.R.C. Strength limit: 16,800 lbs. (7,619 kg.).

Drum Capacity .75 in. (19 mm) Cable: 554 ft. (168 m), 5 layers.

Line Pull Maximum: 18,262 lbs. (8,291 kg) 1st layer, low speed, 13,223 lbs. (5,997 kg.) 5th layer..

Maximum Available Line Pull for starting load mid-air, 5th layer: 11,000 lbs. (4991 kg).

Line Speed Maximum: (At 2750 Engine R.P.M. and with .75 in. Dia. cable) 642 ft./min. (196 meter/min.) 5th layer, high speed.

AUXILIARY WINCH (OPTIONAL): P&H Model 1561 with two speed motor, mounted to rear of revolving frame on the counterweight. Planetary gearing and equal speed, power raising and lowering. Infinitely variable speed control. Spring applied hydraulically released load holding multi-disc brake is automatic.

Drum: 15 in. (381 mm) pitch diameter, 18.5 in. (470 mm) wide, 23.5 in. (597 mm) flange diameter.

Cable (optional): .75 in. (19 mm) diameter 6 x 25 extra improved plow steel with 7 x 7 I.W.R.C. Strength limit: 16,800 lbs. (7,619 kg.)

Cable (optional): .75 in. (19 mm) diameter, 8 x 25 spin resistant, extra improved plow steel, 7 x 7 I.W.R.C. Strength limit: 10,360 lbs. (4,698 kg.)

Drum Capacity .75 in. (19 mm) Cable: 554 ft. (168 m), 5 layers.

Line Pull Maximum: 18,262 lbs. (8,291 kg.) 1st layer, low speed, 13,223 lbs. (5,997 kg.) 5th layer (.75 in. cable).

Maximum Available Line Pull for starting load mid-air, 5th layer: 11,000 lbs. (4,991 kg.) (.75 in. cable).

Line Speed Maximum (At 2750 Engine R.P.M. and with .75 in. dia. cable): 642 ft./min. (196 M/min.) 5th layer, high speed.

Cable (optional): .625 in. (16 mm) diameter, 6 x 25 extra improved plow steel, 7 x 7 I.W.R.C.

Drum Capacity .625 in. (16 mm) Dia. Cable: 646 ft. (199 m), 5 layers.

Line Pull Maximum: 18,437 lbs. (8,361 kg.) 1st layer, low speed, 13,950 lbs. (6,327 kg.), 5th layer (.625 in. cable).

Maximum Available Line Pull for starting load mid-air, 5th layer: 11,000 lbs. (4,991 kg) (.625 in. cable).

Line Speed Maximum: (At 2750 engine R.P.M. and with .625 in. dia. cable 608 ft./min. (185 M/min.), 5th layer, high speed.)

SHEAVE AND DRUM TO WIRE ROPE RATIOS: (Pitch Diameter)	Sheave to Wire Rope	Drum to Wire Rope
Main Boom Sheaves		
.75" Wire Rope	24.15:1	— —
.625" Wire Rope	28.78:1	— —
Main Winch		
.75" Wire Rope	— —	20.0:1
.625" Wire Rope	— —	23.8:1

BOOM HOIST: Two 7.874" (200 mm) I.D. cylinders, double-acting. Hydraulically powered raising and lowering with holding valve.

BOOM TELESCOPE: Two 6.3" (160 mm) I.D. cylinders — double-acting. Hydraulically powered raising and lowering with holding valve. Supplied by a single hose loop.

HYDRAULIC SYSTEM

FILTERS: Two 10-micron nominal return line filters mounted in the hydraulic reservoir. All return oil is filtered. Indicators external.

PUMP DRIVE: Driven off carrier engine crankshaft, with manual pump disconnect for highway travel. 1.182 pump speed to 1.0 engine speed drive ratio for Detroit Diesel Allison 6L71TA Engine. 1.00 pump speed to 1.00 engine speed for Caterpillar 3208T Engine.

PUMPS: CATERPILLAR 3208T ENGINE: One Tandem gear pump operating at 2600 full load RPM, with the first section providing 51.6 GPM (195 liter/min.) to the boom hoist and telescope circuits, and the second section providing 39.5 GPM (150 liter/min.) to the main and auxiliary winch circuits.

One tandem gear pump operating at 2600 full load RPM, with the first section providing 33.6 GPM (127 liter/min.) to the swing circuit, the second section provides 33.6 GPM (127 liter/min.) to the outrigger or winch boost circuits.

An Eaton 1.65 cu. in. (27.04 cu. cm.) per revolution heavy duty power steering pump operating at full load RPM of 3120 RPM, provides 8 GPM (30.3 liter/min.) to steering circuit.

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LOAD RATINGS - POSA CLASS 10-208

With 8000 lbs. counterweight

RATED LOADS IN POUNDS ON OUTRIGGERS

POWERED BOOM LENGTH IN FEET — MANUAL RETRACTED

OPERATING RADIUS FT	34 FT. LOADED BOOM ANGLE	34 FT. RATED LOAD POUNDS SIDE	34 FT. RATED LOAD POUNDS REAR	40 FT. LOADED BOOM ANGLE	40 FT. RATED LOAD POUNDS SIDE	40 FT. RATED LOAD POUNDS REAR	45 FT. LOADED BOOM ANGLE	45 FT. RATED LOAD POUNDS SIDE	45 FT. RATED LOAD POUNDS REAR	55 FT. LOADED BOOM ANGLE	55 FT. RATED LOAD POUNDS SIDE	55 FT. RATED LOAD POUNDS REAR	65 FT. LOADED BOOM ANGLE	65 FT. RATED LOAD POUNDS SIDE	65 FT. RATED LOAD POUNDS REAR	75 FT. LOADED BOOM ANGLE	75 FT. RATED LOAD POUNDS SIDE	75 FT. RATED LOAD POUNDS REAR	84.88 FT. LOADED BOOM ANGLE	84.88 FT. RATED LOAD POUNDS SIDE	84.88 FT. RATED LOAD POUNDS REAR	OPERATING RADIUS FT
10	86	100000		78	82000		72	81000		76	75000											10
12	82	88000		82	81500		70	76500		74	68000		77	60000								12
15	56	71000		82	71000		65	70000		71	62000		74	54900		77	47200					15
20	45	54000		53	54000		58	54000		65	53000		68	47300		73	38900		75	34700		20
25	29	42000		43	47000		56	41900		58	41700		65	40800		69	34400		72	29900		25
30				30	33700		49	33800		52	33500		59	33400		65	30000		68	26100		30
35							28	27100	27100	45	27100	27100	54	27100	27100	60	26400		64	22900		35
40										37	20800	21200	48	20800	21200	55	20800	21200	60	20400		40
45										28	16100	16800	41	16100	16800	50	16100	16800	56	16100	16800	45
50													34	13000	13700	45	13000	13700	52	13000	13700	50
55													24	10500	11300	39	10500	11300	47	10500	11300	55
60																32	8400	9200	42	8400	9200	60
65																22	6900	7600	36	6900	7600	65
70																			29	5600	6300	70
75																			20	4500	5200	75
80																						80
85																						85

LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED

PINNED SECTION EXTENDED

OPERATING RADIUS FT	LOADED BOOM ANGLE	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
25	77	21500	
30	74	19600	
35	72	17800	
40	69	16100	
45	66	14700	
50	63	13400	
55	60	12200	12400
60	57	10000	10700
65	53	8500	9300
70	50	7200	7900
75	46	6100	6700
80	42	5100	5800
85	38	4300	4900
90	33	3600	4200
100	19	2400	3000

LATTICE EXTENSION WITH PINNED SECTION RETRACTED

OPERATING RADIUS FT	35 FT. LOADED BOOM ANGLE	35 FT. RATED LOAD IN POUNDS SIDE	35 FT. RATED LOAD IN POUNDS REAR	38 FT. TELESCOPIC LOADED BOOM ANGLE	38 FT. TELESCOPIC RATED LOAD IN POUNDS SIDE	38 FT. TELESCOPIC RATED LOAD IN POUNDS REAR	60 FT. TELESCOPIC LOADED BOOM ANGLE	60 FT. TELESCOPIC RATED LOAD IN POUNDS SIDE	60 FT. TELESCOPIC RATED LOAD IN POUNDS REAR
25	78	17000		78	16400		25		
30	76	15600		76	15100		30		
35	73	14500		73	13900		35	76	7100
40	71	13500		71	12900		40	74	6600
45	68	12600		68	12000		45	72	6300
50	66	11800		66	11200		50	70	6100
55	63	11100		63	10400		55	68	5700
60	60	10400		60	9800		60	66	5500
65	57	8900	9500	57	8100	8800	65	64	5400
70	54	7600	8200	54	6900	7400	70	62	5200
75	51	6400	7100	51	5700	6300	75	60	5100
80	48	5500	6100	48	4700	5300	80	57	4900
85	44	4600	5200	44	3900	4400	85	55	4600
90	40	3900	4500	40	3100	3700	90	52	4400
100	32	2700	3300	32	1900	2500	100	47	3200 3700
110	19	–	2200				110	41	2200 2700
							120	34	– 1800

LATTICE EXTENSION WITH PINNED SECTION EXTENDED

OPERATING RADIUS FT	35 FT. LOADED BOOM ANGLE	35 FT. RATED LOAD IN POUNDS SIDE	35 FT. RATED LOAD IN POUNDS REAR	35 FT. TELESCOPIC LOADED BOOM ANGLE	35 FT. TELESCOPIC RATED LOAD IN POUNDS SIDE	35 FT. TELESCOPIC RATED LOAD IN POUNDS REAR	60 FT. TELESCOPIC LOADED BOOM ANGLE	60 FT. TELESCOPIC RATED LOAD IN POUNDS SIDE	60 FT. TELESCOPIC RATED LOAD IN POUNDS REAR
25							25		
30							30		
35	77	12000		78	11900		35		
40	75	10900		76	10700		40		
45	73	10100		74	9900		45	77	6800
50	71	9300		72	9100		50	75	6200
55	69	8600		70	8300		55	73	5800
60	67	7900		67	7700		60	72	5700
65	65	7300		65	7100		65	70	5600
70	63	6800		63	6500		70	68	5400
75	60	6300		61	6000		75	66	5000
80	58	5900		58	5200	5800	80	65	4700
85	55	5200	5800	56	4400	4900	85	63	4300
90	53	4400	5000	53	3800	4200	90	61	4000
100	47	3200	3900	47	2400	2900	100	57	3500
110	41	2200	2700	41	–	1800	110	52	2800 3000
120	34	–	1800				120	47	1800 2200

NOTE:

1. WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES, NOT OPERATING RADIUS TO DETERMINE LOAD RATING.
2. FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.
3. FOR BUCKET RATINGS ON 60 FT. EXTENSION, DEDUCT 20% FROM LOAD RATINGS.

WARNING:

A TIPPING CONDITION WILL OCCUR (WITH OR WITHOUT HOOK BLOCK) WITH 35 FT. OR 60 FT. BOOM EXTENSION ERECTED, IF MAXIMUM OPERATING RADIUS SHOWN WITH LOAD RATING FOR RESPECTIVE OPERATING CONFIGURATION IS EXCEEDED.

DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS

	DESCRIPTION		WITHOUT HOOK BLOCK ON BOOM POINT	HOOK BLOCK ON POWERED BOOM POINT: 8.5 – 20 TON	40–50 TON	8.5 – 20 TON WITH AUXILIARY SHEAVE	40–50 TON WITH AUXILIARY SHEAVE
HOISTING LOAD FROM POWERED BOOM	HOOK BLOCK WEIGHT		—	580	950	740	1100
	35 FT. LATTICE EXTENSION	STOWED	—	700	1100	890	1250
		ERECTED ONLY	—	3650	3900	3700	4000
		8.5 TON BALL	—	4700	5050	4850	5200
		20 TON BLOCK	—	6000	6350	6150	6500
	35 FT. TELESCOPIC LATTICE EXTENSION	STOWED	—	700	1050	850	1200
		ERECTED ONLY	—	5500	5850	5650	6000
		8.5 TON BALL	—	6650	7000	6800	7150
		20 TON BLOCK	—	7950	8350	8100	8500
	60 FT. TELESCOPIC LATTICE EXTENSION	ERECTED ONLY	—	5500	5850	5650	6000
		8.5 TON BALL	—	7100	7450	7250	7600
		20 TON BLOCK	—	8800	9250	9050	9400
HOISTING LOAD FROM EXTENSION	35 FT. LATTICE EXTENSION	8.5 TON BALL	270	650	850	750	950
		20 TON BLOCK	580	950	1150	1050	1350
	35 FT. TELESCOPIC LATTICE EXTENSION	8.5 TON BALL	270	650	900	750	1000
		20 TON BLOCK	580	950	1200	1050	1300
	60 FT. TELESCOPIC LATTICE EXTENSION	8.5 TON BALL	270	600	800	650	850
		20 TON BLOCK	560	900	1100	1000	1150

NOTE: THESE LOAD DEDUCTIONS APPLY ONLY TO PAM SUPPLIED EQUIPMENT.

MAIN HOIST REEVING

3/4 DIA. WIRE ROPE BREAKING STRENGTH 38,600 LBS. 6 X 25 FW IWRC

PART OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD	11800	22000	33000	44000	55000	66000	77000	88000	99000	100000

AUXILIARY HOIST REEVING

3/4 DIA. WIRE ROPE BREAKING STRENGTH 51,800 LBS. 8 X 19 IWRC

5/8 DIA. WIRE ROPE BREAKING STRENGTH 41,200 LBS. 6 X 25 FW IWRC

PART OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD	10000	20000	30000	40000	50000	60000	70000	80000	90000	100000

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 △°, IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.

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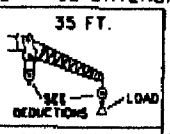
LOAD RATINGS for Offset Lattice Extension
with 8,000 lb. counterweight

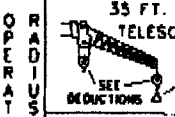
LOAD RATINGS IN POUNDS FOR 17° OFFSET WITH OUTRIGGERS EXTENDED

LATTICE EXTENSION WITH PINNED SECTION RETRACTED



35 FT. — FOR ALL BOOM LENGTHS 69 TO 119.6 FT

OPERATING RADIUS FT FOR 119.6 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35	77	11100	
40	74	10400	
45	72	9900	
50	69	9500	
55	67	9100	
60	64	8700	
65	61	8400	
70	58	8100	
75	55	7000	7600
80	52	6000	6600
85	48	5100	5700
90	44	4300	4800
100	35	3000	3500
110	21	-	2300



35 FT. TELESCOPIC — FOR ALL BOOM LENGTHS 69 TO 119.6 FT.

OPERATING RADIUS FT FOR 119.6 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35	77	10400	
40	75	9900	
45	72	9300	
50	69	8900	
55	67	8500	
60	64	8100	
65	61	7800	
70	58	7500	
75	55	6300	6900
80	52	5200	5800
85	48	4300	4900
90	44	3500	4100
100	35	2200	2700

60 FT. TELESCOPIC — FOR ALL BOOM LENGTHS 94 TO 144.6 FT.

OPERATING RADIUS FT FOR 144.6 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35			
40			
45	78	5400	
50	76	5200	
55	74	5100	
60	72	4900	
65	70	4700	
70	67	4500	
75	65	4300	
80	63	4100	
85	60	3900	
90	58	3700	
100	52	3500	
110	46	2700	3100
120	39	-	2200

LATTICE EXTENSION WITH PINNED SECTION EXTENDED

35 FT. — FOR ALL BOOM LENGTHS 94.3 TO 145 FT.

OPERATING RADIUS FT FOR 145 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35			
40			
45	77	9700	
50	75	9000	
55	73	8300	
60	70	7700	
65	68	7200	
70	66	6700	
75	54	6200	
80	61	5800	
85	59	5400	
90	56	4900	5100
100	51	3600	4100
110	44	2500	3000
120	37	-	2100

35 FT. TELESCOPIC — FOR ALL BOOM LENGTHS 94.3 TO 145 FT.

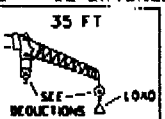
OPERATING RADIUS FT FOR 145 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35			
40			
45	77	9100	
50	75	8300	
55	73	7600	
60	71	7000	
65	68	6500	
70	66	6000	
75	64	5600	
80	61	5200	
85	59	4800	
90	56	4100	4500
100	51	2800	3300
110	44	-	2200

60 FT. TELESCOPIC — FOR ALL BOOM LENGTHS 119.3 TO 170 FT.

OPERATING RADIUS FT FOR 170 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35			
40			
45			
50			
55	78	5200	
60	76	5000	
65	75	4800	
70	73	4600	
75	71	4400	
80	69	4100	
85	67	3900	
90	65	3600	
100	61	3100	
110	57	2800	
120	52	2000	2400

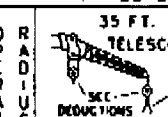
LOAD RATINGS IN POUNDS FOR 30° OFFSET WITH OUTRIGGERS EXTENDED

LATTICE EXTENSION WITH PINNED SECTION RETRACTED



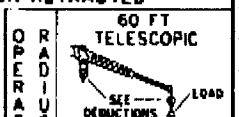
35 FT — FOR ALL BOOM LENGTHS 69 TO 119.6 FT.

OPERATING RADIUS FT FOR 119.6 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35			
40	78	8900	
45	75	8500	
50	72	8200	
55	70	8000	
60	67	7700	
65	64	7500	
70	61	7300	
75	57	7200	
80	54	6300	6900
85	50	5400	5900
90	46	4500	5100
100	36	3100	3600
110	19	1800	2300



35 FT. TELESCOPIC — FOR ALL BOOM LENGTHS 69 TO 119.6 FT.

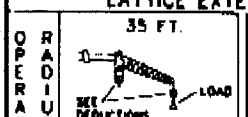
OPERATING RADIUS FT FOR 119.6 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35			
40	78	8300	
45	75	7900	
50	72	7600	
55	70	7400	
60	67	7100	
65	64	6900	
70	61	6700	
75	58	6600	
80	54	5600	6200
85	50	4600	5200
90	46	3800	4300
100	36	2300	2800



60 FT TELESCOPIC — FOR ALL BOOM LENGTHS 94 TO 144.6 FT

OPERATING RADIUS FT FOR 144.6 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35			
40			
45			
50			
55			
60	76	4200	
65	74	4000	
70	72	3800	
75	69	3700	
80	67	3600	
85	64	3500	
90	62	3400	
100	56	3200	
110	49	3000	
120	41	2000	2400

LATTICE EXTENSION WITH PINNED SECTION EXTENDED



35 FT. — FOR ALL BOOM LENGTHS 94.3 TO 145 FT.

OPERATING RADIUS FT FOR 145 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35			
40			
45			
50	77	8100	
55	75	7600	
60	73	7100	
65	71	6600	
70	68	6200	
75	66	5900	
80	63	5600	
85	61	5300	
90	58	5000	
100	52	3800	4300
110	46	2700	3200
120	38	1800	2200

35 FT. TELESCOPIC — FOR ALL BOOM LENGTHS 94.3 TO 145 FT.

OPERATING RADIUS FT FOR 145 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35			
40			
45			
50	77	7400	
55	75	6900	
60	73	6400	
65	71	5900	
70	68	5500	
75	66	5200	
80	63	4900	
85	61	4600	
90	58	4300	
100	52	3000	3500
110	46	1900	2400

60 FT. TELESCOPIC — FOR ALL BOOM LENGTHS 119.3 TO 170 FT.

OPERATING RADIUS FT FOR 170 FOOT BOOM ONLY	LOADED BOOM ANGLE ∠°	RATED LOAD IN POUNDS SIDE	RATED LOAD IN POUNDS REAR
35			
40			
45			
50			
55			
60			
65	78	4100	
70	76	3900	
75	75	3800	
80	73	3700	
85	71	3500	
90	69	3300	
100	64	2900	
110	60	2600	
120	55	2300	

NOTES:
1. SEE MAIN LOAD RATING CHART ON OUTRIGGERS FOR WARNINGS, DEFINITIONS, INFORMATION AND REEVING.
2. FOR BUCKET RATINGS ON 60 FT. EXTENSION, DEDUCT 20% FROM LOAD RATINGS.
3. STABILITY RATINGS DO NOT EXCEED 85% OF TIPPING LOADS.
4. WHEN BOOM IS NOT FULLY EXTENDED USE ONLY BOOM ANGLES, NOT OPERATING RADIUS TO DETERMINE LOAD RATING.
5. FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.
6. 8000 LB. STANDARD COUNTERWEIGHT OR 8000 LB. OPTIONAL CWT. INCLUDING 7525 LB. REMOVABLE WT.

WARNINGS:

A TIPPING CONDITION WILL OCCUR (WITH OR WITHOUT HOOK BLOCK) WITH 35 FT. OR 60 FT. BOOM EXTENSION ERECTED, IF MAXIMUM OPERATING RADIUS SHOWN WITH LOAD RATING FOR RESPECTIVE OPERATING CONFIGURATION IS EXCEEDED.

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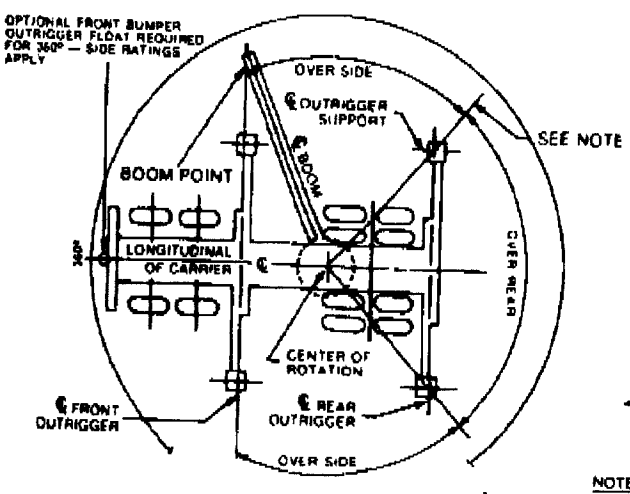
WEIGHT DISTRIBUTION—FOR PUBLICATION

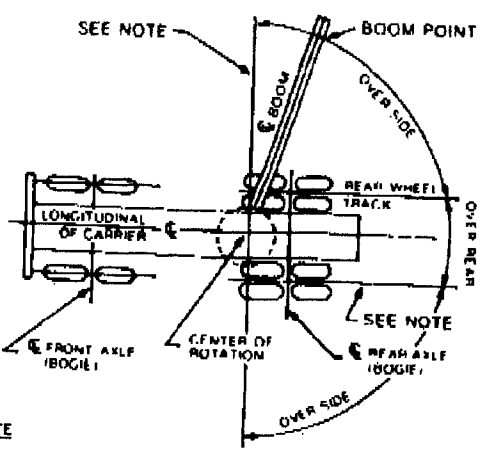
	POUNDS GROSS	POUNDS FRONT	POUNDS REAR	KILOGRAMS GROSS	KILOGRAMS FRONT	KILOGRAMS REAR
BASIC CARRIER	33457	15009	18448	15176	6808	8368
BASIC UPPER	5441	4942	499.3	2468	203	2265
STANDARD OPTIONS:						
110 FT 4SECT BOOM	17555	13140	4415	7963	5960	2003
BOOM HOIST CYL INST.	2063	1041	1023	936	472	464
8000 LB COUNTERWEIGHT	8016	-3226	11241	3636	-1463	5099
MAIN WINCH MOUNT 1581	1080	-301	1381	490	136	626
MAIN WINCH ROPE .75 IN DIA. X 515 FT.	536	149	685	243	-68	311
AUX WINCH OR 1080 LB COUNTERWEIGHT	1080	-437	1518	490	-198	688
CATERPILLAR 3208T ENGINE	3646	3618	28	1654	1641	13
FRONT TIRES & RIMS -(4) 15.00X22.5 18 PR	1237	1237	0	561	561	0
REAR TIRES & RIMS -(8) 11.00X20 14 PR	2037	0	2037	924	0	924
TWO POSITION SWING LOCK	9	1	8	4	0	4
BASIC MACHINE	76157	30380	45778	34545	13780	20765
ADJUSTMENTS FOR OPTIONS:						
BASIC MACHINE						
REMOVABLE 7510 LB COUNTERWEIGHT	7527	3048	-10573	-3414	1382	4796
DETROIT DIESEL 6L 711A ENGINE	642	681	-39	291	309	18
FRONT TIRES & RIMS -(4) 16.00X22.5 18 PR	103	103	0	47	47	0
REAR TIRES & RIMS (8) 12.00X20 16 PR	170	0	170	77	0	77
MULTI POSITION SWING LOCK	33	7	26	15	3	12
ADDITIONS FOR OPTIONS						
ATTACHMENTS						
35 FT. BOOM EXTENSION	1735	1353	382	787	614	173
35 FT. – 60 FT. BOOM EXTENSION	2899	2150	750	1315	975	340
BOOM EXTENSION OFFSET INST.	201	331	-131	91	150	-59
AUXILIARY SHEAVE	152	267	-115	69	121	52
45 TON 4 SHEAVE HOOK BLOCK (FRAME MOUNTED 150 TON HOOK)	899	1429	529	408	648	-240
50 TON 5 SHEAVE HOOK BLOCK (FRAME MOUNTED 150 TON HOOK)	946	1502	557	429	681	-252
20 TON 1 SHEAVE HOOK BLOCK (BUTTERED ONLY ON AXLE REAR OUTRIGGERS)	580	184	764	263	-83	346
8.5 TON BALL HOOK (BUTTERED ONLY ON AXLE REAR OUTRIGGERS)	265	-84	348	120	38	158
AUX WINCH ROPE .75 IN. DIA. X 460 FT.	487	-197	685	221	-89	310
AUX WINCH ROPE .625 IN. DIA X 460 FT.	730	296	1025	331	-134	465
UPPER						
INDEPENDENT MAIN & AUX. WINCH						
AUX. WINCH PLUMBING & CONTROLS	410	-12	422	186	5	181
DIESEL HEATER	82	-17	99	37	-6	43
PROPANE HEATER	53	1	54	24	0	24
PROPANE TANK FULL	55	-1	56	25	0	25
FLOODLIGHTS	49	-2	51	22	-1	23
	35	21	15	16	9	7
CARRIER						
HYDRAULIC FRONT STABILIZER						
PINTLE HOOK	465	671	-206	211	304	-93
AIR DRYER	26	-10	37	12	-5	17
	37	19	18	17	9	8

areas of operation

ON OUTRIGGERS



ON RUBBER



NOTE

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

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LOAD RATINGS ON TIRES

With 8,000 lb. counterweight

LOAD RATINGS IN POUNDS

OPERATING RADIUS FT.	11.00 X 20-14 PR TIRES / 12.00 X 20-16 PR TIRES				OPERATING RADIUS FT.
	STATIONARY		TRAVEL RATINGS OVER REAR		
	OVER REAR	OVER SIDE	CREEP	2.5 MPH	
10	35200	25900	35200	28600	10
12	30500	22000	30500	25500	12
15	26100	15200	26100	22300	15
20	20900	8700	20900	17700	20
25	14800	5200	14800	14400	25
30	10700	3000			30
35	7900				35
40	5900				40
45	4300				45
50	3100				50

8,000 lb. counterweight with 7,525 lb. weight removed

LOAD RATINGS IN POUNDS

OPERATING RADIUS FT.	11.00 X 20-14 PR TIRES / 12.00 X 20-16 PR TIRES				OPERATING RADIUS FT.
	STATIONARY		TRAVEL RATINGS OVER REAR		
	OVER REAR	OVER SIDE	CREEP	2.5 MPH	
10	31200	20300	31200	26700	10
12	27200	14100	27200	23100	12
15	23500	8800	23500	19800	15
20	16500	4200	16500	15700	20
25	11100	1800	11100	11100	25
30	7700				30
35	5400				35
40	3700				40
45	2400				45
50	1400				50

WARNINGS:

1. CRANE LOAD RATINGS WITHOUT OUTRIGGERS DEPENDS ON TIRE CAPACITY AND CONDITION OF TIRES INFLATED PER TABLE.
2. WHEN TRANSPORTING A LOAD, MACHINE MUST BE ON FIRM,LEVEL SURFACE WITH MECHANICAL HOUSELOCK ENGAGED. THE LOAD MUST BE CENTERED OVER REAR OF MACHINE AND RESTRAINED FROM SWINGING. SEE AREAS OF OPERATION PLATE FOR WORKING RANGES.
3. LIFT LOADS WITH MINIMUM BOOM LENGTH; DO NOT EXCEED 65 FEET BOOM LENGTH WHEN LIFTING ON TIRES.
4. DO NOT ATTEMPT LIFTS ON TIRES WITH EXTENSION ERECTED.
5. MAXIMUM RECOMMENDED BOOM ANGLE ON TIRES IS 66° WITHOUT LOAD.

DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS

DESCRIPTION		HOOK BLOCK ON POWERED BOOM POINT			
		8.5-20 TON	45-50 TON	8.5-20 TON WITH AUX. SHEAVE	45-50 TON WITH AUX SHEAVE
HOOK BLOCK WEIGHT		580	950	740	1100
STOWED LATTICE EXT.	35 FT. BOOM EXTENSION	900	1300	1100	1450
	60 FT. TELESCOPIC BOOM EXTENSION	1100	1450	1250	1600

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

DEFINITIONS:

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

INFORMATION:

1. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED LATTICS EXTENSION, OPTIONAL ATTACHMENTS, HOOKS AND HOOKBLOCKS. (SEE DEDUCTION CHART). WEIGHTS OF SLINGS, AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
2. RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.
3. IT IS RECOMMENDED THAT OUTRIGGERS BE EXTENDED AS FAR AS POSSIBLE AND CLEAR OF GROUND WHEN LIFTING ON TIRES.
4. STABILITY RATINGS DO NOT EXCEED 75% OF TIPPING LOADS.

NOTES:

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.

TIRE INFLATION

SIZE	STATIC PSI	CREEP PSI	2.5 MPH PSI
11.00X20-14 PR	110	110	110
12.00X20-16 PR	115	115	115
15.0RX22.5-18PR	130	130	130
16.5RX22.0-18PR	125	125	125

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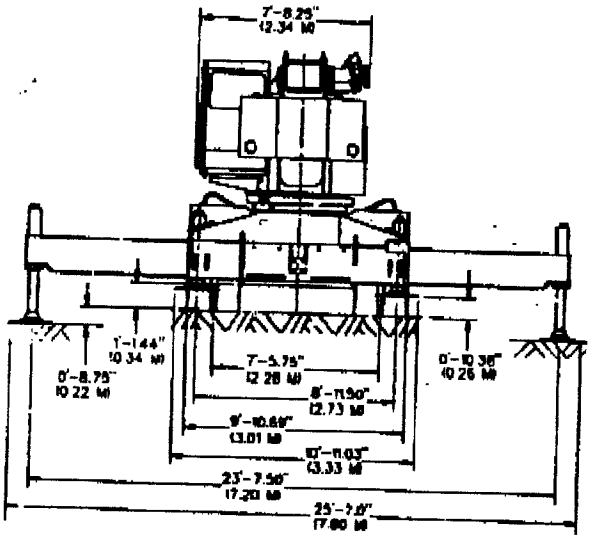
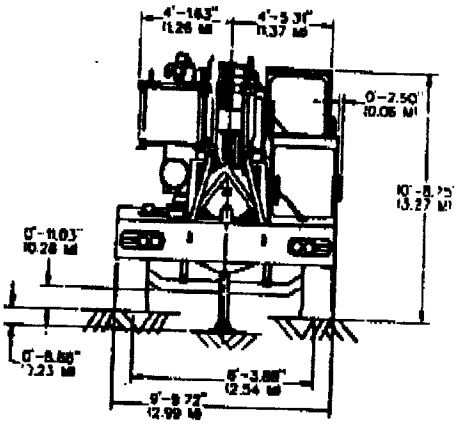
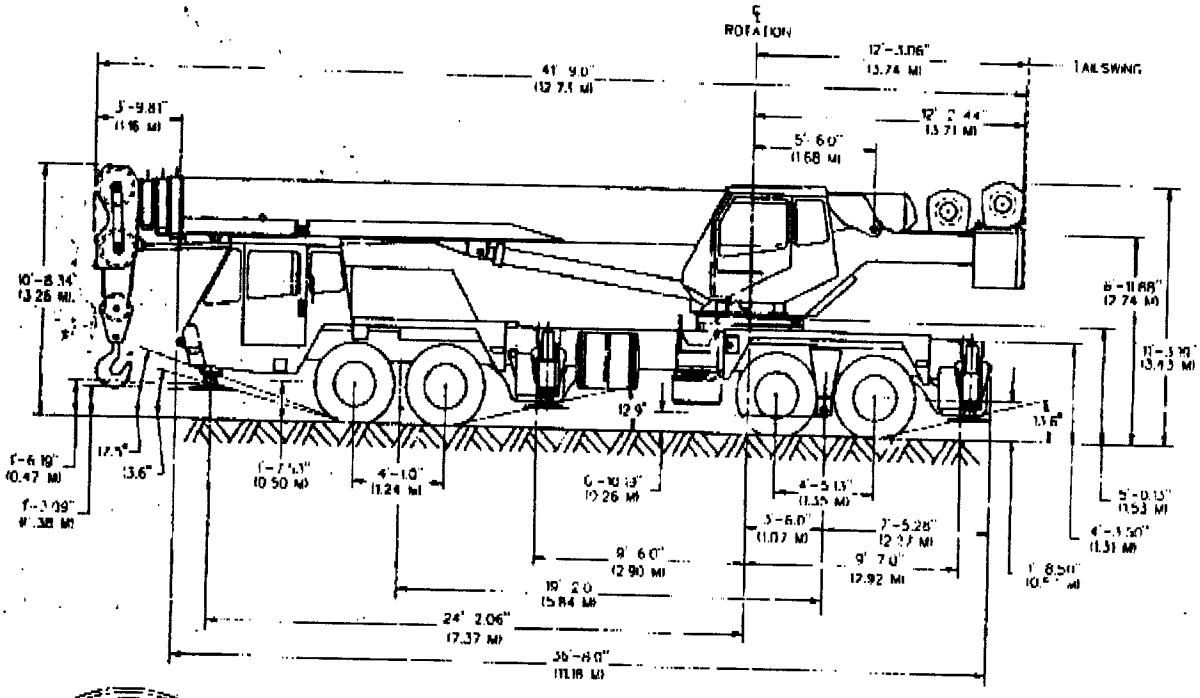
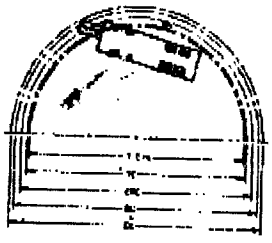
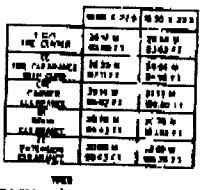
DIMENSIONS

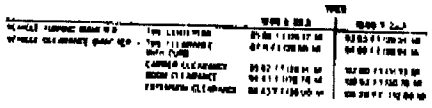












MORGAN/COLTON EQUIP. CO.
14480 ALONDRA BLVD.
LA MIRADA, CA. 90638
213-868-4754 - 714-521-6410

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.

Century II INC. P&H