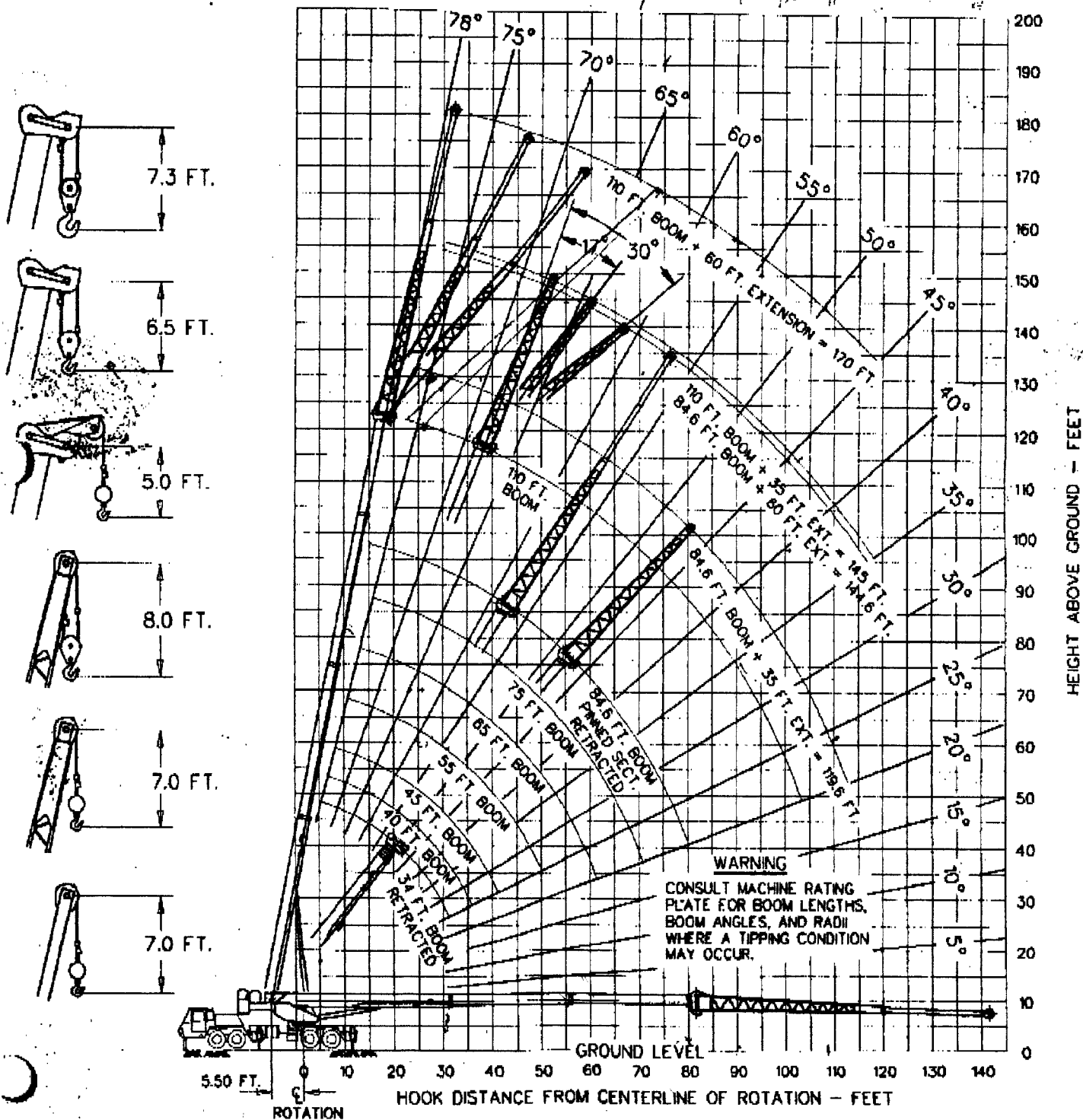




P&H® CENTURY T-500

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





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 18.5 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 3206T 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 462 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 coast 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

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-11813, 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 3206T 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 285 min. and CCA at 0°F of 840 amps. Wire harnesses have environmentally sealed Deutsch connectors.

FUEL TANK: FWA 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 3206T

Max. H.P.: 250 hp (186 kw) at 2800 rpm.

Max. Torque: 840 ft./lb. (88.5 kg. - m) at 1400 rpm.

No. Cyl.: 6 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 (196 kw) at 2100 rpm.

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

No. Cyl.: 6 cyl., 4.25 in. (107.8 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: 8000 lbs. (3,630 kg.)

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



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 1581 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. (4,991 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 1581 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: 10,380 lbs. (4,688 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: 648 ft. (199 m), 5 layers.

Line Pull Maximum: 15,437 lbs. (6,961 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 61.6 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.



LOAD RATINGS - PC/SA CLASS 10-208

With 8000 lbs. counterweight

RATED LOADS IN POUNDS ON OUTRIGGERS																																	
POWERED BOOM LENGTH IN FEET - MANUAL RETRACTED																																	
BOOM HEIGHT FEET	34 FT.		46 FT.		45 FT.		55 FT.		65 FT.		75 FT.		84.88 FT.		BOOM HEIGHT FEET	34 FT.		46 FT.		45 FT.		55 FT.		65 FT.		75 FT.		84.88 FT.					
	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR		RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR				
10	86	10000	70	8200	72	8100	78	7500	77	6000					10	86	10000	70	8200	72	8100	78	7500	77	6000					10			
12	62	8800	67	8150	70	7650	74	8000	74	6000					12	62	8800	67	8150	70	7650	74	8000	74	6000					12			
15	56	7100	62	7100	65	7000	71	8200	74	5490					15	56	7100	62	7100	65	7000	71	8200	74	5490					15			
20	43	5400	53	5400	58	5400	65	5300	68	4730					20	43	5400	53	5400	58	5400	65	5300	68	4730					20			
25	29	4200	43	4700	50	4190	56	4170	65	4080					25	29	4200	43	4700	50	4190	56	4170	65	4080					25			
30			30	5370	40	5380	52	5330	59	5540					30			30	5370	40	5380	52	5330	59	5540					30			
35					28	2710	2710	45	2710	2710	54	2710	2710	60		35					28	2710	2710	45	2710	2710	54	2710	2710	60			
40					37	7080	21200	48	7080	21200	55	7080	21200	60		40					37	7080	21200	48	7080	21200	55	7080	21200	60			
45								28	18100	16800	41	18100	16800	50		45										28	18100	16800	41	18100	16800	50	
50											34	13600	13700	45		50										34	13600	13700	45	13600	13700	50	
55											28	10500	11300	39		55										28	10500	11300	39	10500	11300	55	
60														32		60																60	
65														22		65																65	
70																70																	70
75																75																	75
80																80																	80
85																85																	85

LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED													
LATTICE EXTENSION WITH PINNED SECTION RETRACTED													
BOOM HEIGHT FEET	35 FT. TELESCOPIC		38 FT. TELESCOPIC		50 FT. TELESCOPIC		35 FT. TELESCOPIC		38 FT. TELESCOPIC		50 FT. TELESCOPIC		
	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	RATED LOAD POUNDS	SIDE REAR	
25	21500		17000		16400		15100		14000		12800		
30	18500		14500		13900		12700		11700		10700		
35	17800		13500		12900		11800		10800		9900		
40	16100		12500		11900		10800		9900		9000		
45	14700		11500		10900		9800		8900		8000		
50	13400		10500		9900		8800		7900		7000		
55	12200		9500		8900		7800		6900		6000		
60	11000		8500		7900		6800		5900		5000		
65	9800		7500		6900		5800		4900		4000		
70	8700		6500		5900		4800		3900		3000		
75	7700		5500		4900		3800		2900		2000		
80	6800		4500		3900		2800		1900		1000		
85	6000		3500		2900		1800		900		800		
90	5300		2500		1900		1200		700		600		
95	4700		2100		1600		1000		600		500		
100	4200		1800		1400		800		500		400		
105	3800		1600		1200		700		400		300		
110	3400		1400		1000		600		300		200		
115	3100		1200		900		500		200		100		
120	2800		1000		800		400		100		100		

NOTE:

- WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES, NOT OPERATING RADIUS TO DETERMINE LOAD RATING.
- FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.
- FOR SCKET RATINGS ON 50 FT. EXTENSION, DEDUCT 20% FROM LOAD RATINGS.

WARNING:

A TIPPING CONDITION WILL OCCUR WITH OR WITHOUT HOOK BLOCKS! WITH 35 FT. OR 50 FT. BOOM EXTENSION ERECTED, IF MAXIMUM OPERATING RADIUS SHOWN WITH LOAD RATING FOR RESPECTIVE OPERATING CONFIGURATION IS EXCEEDED.

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 SLACK 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 EXTENDED, 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			
		45 - 50 TON	45 - 50 TON	45 - 50 TON	45 - 50 TON
35 FT. LATTICE EXTENSION					
STOWED		580	930	740	1160
ERECTED ONLY		3550	2900	3700	4030
6.5 TON BALL		4700	9050	4850	5200
20 TON BLOCK		6000	6350	6150	6500
55 FT. TELESCOPE LATTICE EXTENSION					
STOWED		700	1000	850	1200
ERECTED ONLY		3500	2850	3650	4000
6.5 TON BALL		4650	7000	4600	7150
20 TON BLOCK		7850	6350	6100	6500
60 FT. TELESCOPE LATTICE EXTENSION					
ERECTED ONLY		3500	2850	3650	4000
6.5 TON BALL		7100	7450	7350	7600
20 TON BLOCK		6800	9750	9050	9400
75 FT. TELESCOPE LATTICE EXTENSION					
6.5 TON BALL		270	850	750	950
20 TON BLOCK		540	850	1150	1200
80 FT. TELESCOPE LATTICE EXTENSION					
6.5 TON BALL		270	850	750	1000
20 TON BLOCK		540	850	1050	1300
85 FT. TELESCOPE LATTICE EXTENSION					
6.5 TON BALL		270	850	850	850
20 TON BLOCK		540	850	1100	1150

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

MAIN HOIST REEVEING										
3/4 DIA. WIRE ROPE BREAKING STRENGTH 38,800 LBS. 6 X 25 FW IWRC										
PART OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD	11800	22800	33800	44800	55800	66800	77800	88800	99800	100000
SUBSIDIARY HOIST REEVEING										
5/8 DIA. WIRE ROPE BREAKING STRENGTH 51,800 LBS. 8 X 19 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 Δ IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.



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						LATTICE EXTENSION WITH PINNED SECTION EXTENDED					
35 FT.			35 FT. TELESCOPIC			60 FT. TELESCOPIC			35 FT.		
FOR ALL BOOM LENGTHS 69 TO 119.6 FT.			FOR ALL BOOM LENGTHS 69 TO 119.6 FT.			FOR ALL BOOM LENGTHS 84 TO 144.6 FT.			35 FT. TELESCOPIC		
FOR 119.6 FOOT BOOM ONLY			FOR 119.6 FOOT BOOM ONLY			FOR 144.6 FOOT BOOM ONLY			FOR 145 FOOT BOOM ONLY		
OPERATING RADIUS	LOADING BOOM ANGLE	RATED LOAD IN POUNDS	OPERATING RADIUS	LOADING BOOM ANGLE	RATED LOAD IN POUNDS	OPERATING RADIUS	LOADING BOOM ANGLE	RATED LOAD IN POUNDS	OPERATING RADIUS	LOADING BOOM ANGLE	RATED LOAD IN POUNDS
		SIDE REAR			SIDE REAR			SIDE REAR			SIDE REAR
35	77	11100	35	77	10400	35			35		
40	74	10400	40	75	9900	40			40		
45	72	9900	45	72	9300	45	78	5400	45	77	9700
50	69	9500	50	69	8900	50	76	5200	50	75	9000
55	67	9100	55	67	8500	55	74	5100	55	73	8300
60	64	8700	60	64	8100	60	72	4900	60	71	7700
65	61	8400	65	61	7800	65	70	4700	65	68	7200
70	58	8100	70	58	7500	70	67	4500	70	66	6700
75	55	7000	75	55	6300	75	65	4300	75	64	6200
80	52	6000	80	52	5200	80	63	4100	80	61	5800
85	48	5100	85	48	4300	85	60	3900	85	59	5400
90	44	4300	90	44	3500	90	58	3700	90	56	4900
100	35	3000	100	35	2200	100	52	3500	100	51	3600
110	21	-				110	46	2700	110	44	2500
						120	39	-	120	37	-
								2200			2100

LOAD RATINGS IN POUNDS FOR 30° OFFSET WITH OUTRIGGERS EXTENDED											
LATTICE EXTENSION WITH PINNED SECTION RETRACTED						LATTICE EXTENSION WITH PINNED SECTION EXTENDED					
35 FT.			35 FT. TELESCOPIC			60 FT. TELESCOPIC			35 FT.		
FOR ALL BOOM LENGTHS 69 TO 119.6 FT.			FOR ALL BOOM LENGTHS 69 TO 119.6 FT.			FOR ALL BOOM LENGTHS 84 TO 144.6 FT.			35 FT. TELESCOPIC		
FOR 119.6 FOOT BOOM ONLY			FOR 119.6 FOOT BOOM ONLY			FOR 144.6 FOOT BOOM ONLY			FOR 145 FOOT BOOM ONLY		
OPERATING RADIUS	LOADING BOOM ANGLE	RATED LOAD IN POUNDS	OPERATING RADIUS	LOADING BOOM ANGLE	RATED LOAD IN POUNDS	OPERATING RADIUS	LOADING BOOM ANGLE	RATED LOAD IN POUNDS	OPERATING RADIUS	LOADING BOOM ANGLE	RATED LOAD IN POUNDS
		SIDE REAR			SIDE REAR			SIDE REAR			SIDE REAR
35			35			35			35		
40	78	8900	40	78	8300	40			40		
45	75	8500	45	75	7900	45			45		
50	72	8200	50	72	7600	50			50	77	8100
55	70	8000	55	70	7400	55			55	75	7600
60	67	7700	60	67	7100	60	76	4200	60	73	7100
65	64	7500	65	64	6900	65	74	4000	65	71	6600
70	61	7300	70	61	6700	70	72	3800	70	68	6200
75	57	7200	75	58	6600	75	69	3700	75	66	5900
80	54	6300	80	54	5600	80	67	3600	80	63	5600
85	50	5400	85	50	4600	85	64	3500	85	61	5300
90	46	4500	90	46	3800	90	62	3400	90	58	5000
100	36	3100	100	36	2300	100	56	3200	100	52	3800
110	19	1800				110	49	3000	110	46	2700
						120	41	2000	120	38	1800
								2400			2200

- NOTES: 1. SEE MAIN LOAD RATING CHART ON OUTRIGGERS FOR WARNINGS, DEFINITIONS, INFORMATION AND REEVENING.
 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:

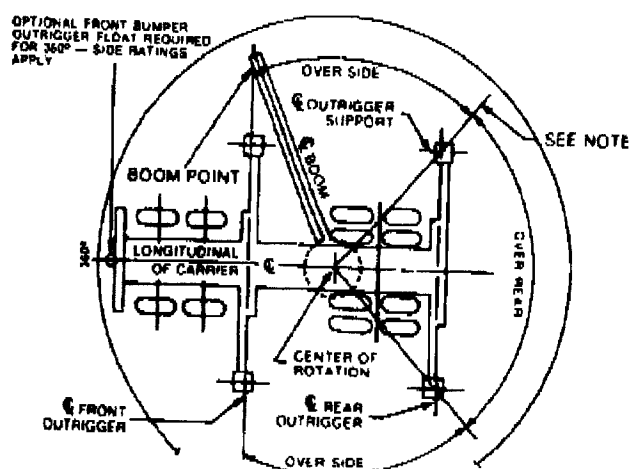
A TIPPING CONDITION WILL OCCUR (WITH OR WITHOUT HOOK BLOCK) WITH 35 FT. OR 60 FT. BOOM EXTENSION ERECTED, IF MAXIMUM OPERATING RADIUS SHOWN WITH LOAD RATING FOR RESPECTIVE OPERATING CONFIGURATION IS EXCEEDED.



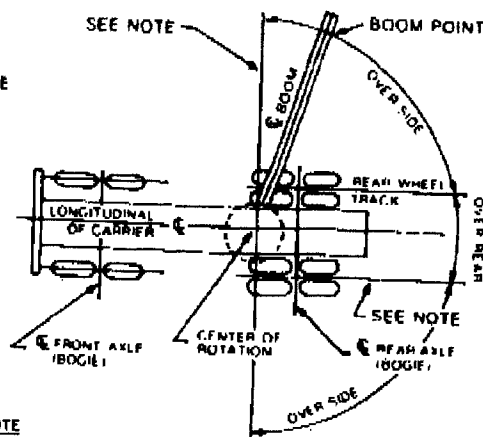
WEIGHT DISTRIBUTION-FOR PUBLICATION						
	POUNDS			KILOGRAMS		
	GROSS	FRONT	REAR	GROSS	FRONT	REAR
BASIC CARRIER	33457	15008	18448	15178	6808	8368
BASIC LIFTER	5447	448	4993	2468	203	2265
STANDARD OPTIONS:						
110 FT. 4500 LB. BOOM	17555	13400	4415	7963	5960	2003
BOOM HOIST CYL. INST.	2085	341	1744	936	472	464
8000 LB. COUNTERWEIGHT	809	1226	1241	3636	1463	5099
MAIN WINCH MOUNT 1581	536	149	1381	490	136	625
MAIN WINCH ROPE 75 IN. DIA. X 515 FT.	536	149	1381	490	136	625
AUX. WINCH OR 1000 LB. COUNTERWEIGHT	1080	437	685	241	68	311
CATERPILLAR 3208T ENGINE	3648	3618	1518	1654	1641	688
FRONT TIRES & RIMS - (4) 15.00X22.5 18 PR	1237	1237	0	561	561	0
REAR TIRES & RIMS - (4) 15.00X20 16 PR	2037	0	2037	924	0	924
TWO POSITION SWING LOCK	9	1	8	4	0	4
BASIC MACHINE	7657	30380	45718	34545	13780	20765
ADJUSTMENTS FOR OPTIONS:						
BASIC MACHINE						
REMOVABLE 7510 LB. COUNTERWEIGHT	7527	3048	-10573	-3414	1382	4796
18 TON DIESEL 6L711A ENGINE	642	681	-39	291	109	18
FRONT TIRES & RIMS - (4) 15.00X22.5 18 PR	103	103	0	47	47	0
REAR TIRES & RIMS - (4) 15.00X20 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	387	787	614	173
35 FT. - 50 FT. BOOM EXTENSION	2899	2150	750	1315	975	340
BOOM EXTENSION OFFSET INST.	201	331	-131	91	150	-59
AUXILIARY SHEAVE	152	267	-17	69	121	-52
45 TON 4 SHEAVE HOOK BLOCK	899	1429	629	408	648	-240
18 TON 3 SHEAVE HOOK BLOCK	946	1502	557	429	681	-752
20 TON 1 SHEAVE HOOK BLOCK	580	184	764	263	-83	346
15 TON 1 SHEAVE HOOK BLOCK	265	-84	348	120	38	158
AUX. WINCH ROPE 75 IN. DIA. X 460 FT.	487	-197	685	221	-88	310
AUX. WINCH ROPE 625 IN. DIA. X 460 FT.	730	298	1025	331	-134	465
UPPER						
INDEPENDENT MAIN & AUX. WINCH	410	-12	477	186	5	191
AUX. WINCH PULVERING & CONTROLS	82	-12	94	37	-6	43
DIESEL HEATER	53	1	54	24	0	24
PROPANE HEATER	55	-1	56	25	0	25
PROPANE TANK FULL	49	-2	51	22	-1	23
FLOODLIGHTS	35	21	15	16	9	7
CARRIER						
HYDRAULIC FRONT STABILIZER	465	671	-206	211	304	-93
PINCH HOOK	26	-10	37	12	-5	17
AIR DRYER	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



LOAD RATINGS ON TIRES

With 8,000 lb. counterweight

LOAD RATINGS IN POUNDS					
OPERATING RADIUS IN FT.	11.00 X 20-14 PR TIRES 12.00 X 20-16 PR TIRES				OPERATING RADIUS IN 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 IN FT.	11.00 X 20-14 PR TIRES 12.00 X 20-16 PR TIRES				OPERATING RADIUS IN 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.

INFORMATION:

1. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED LATTICES 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.

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
	60 FT. TELESCOPIC BOOM EXTENSION	1100	1450	1250
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.

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

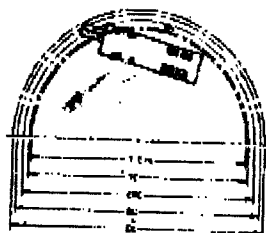
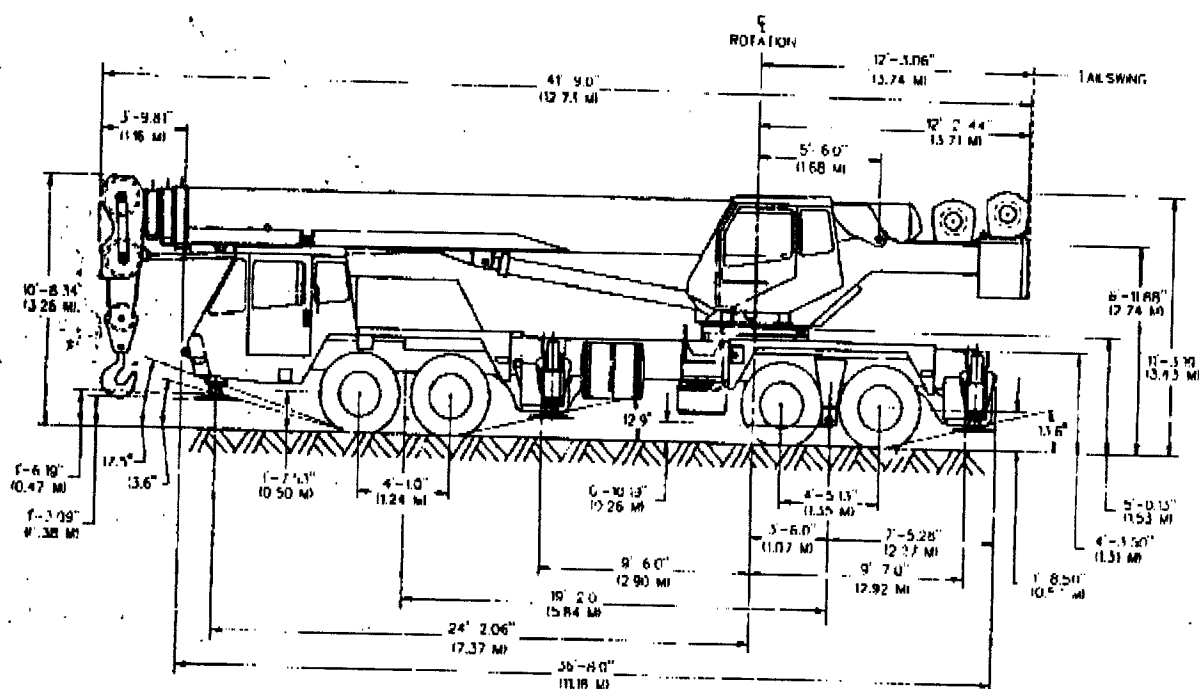
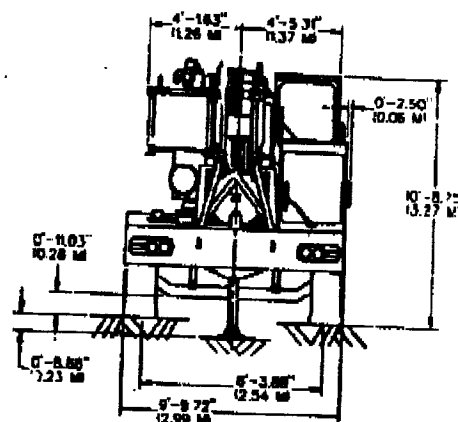
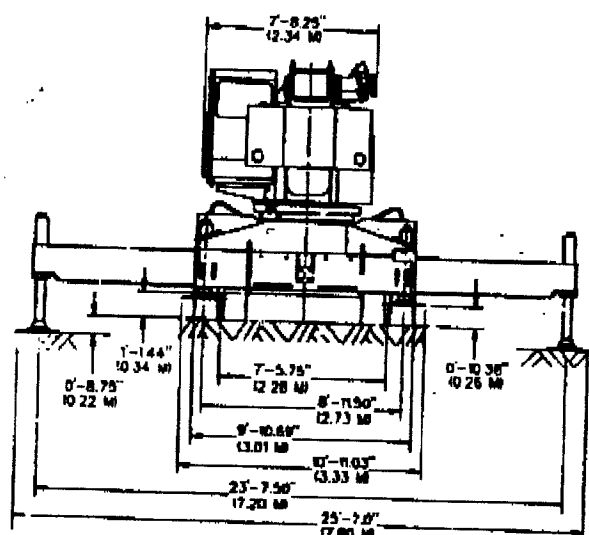
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P.01

DIMENSIONS

NOTE:

REMARKS: ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-09-01 BY SP-6 [redacted] / [redacted]
EXEMPT FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION



	DATE	TIME	LOCATION
1. THE CHAIR	20-10-10	08:00	01:00
2. THE CHAIR	20-10-10	08:00	01:00
3. THE CHAIR	20-10-10	08:00	01:00
4. THE CHAIR	20-10-10	08:00	01:00
5. THE CHAIR	20-10-10	08:00	01:00
6. THE CHAIR	20-10-10	08:00	01:00
7. THE CHAIR	20-10-10	08:00	01:00
8. THE CHAIR	20-10-10	08:00	01:00
9. THE CHAIR	20-10-10	08:00	01:00
10. THE CHAIR	20-10-10	08:00	01:00

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

[illegible]

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. * As manufactured and sold in conformance with U.S. Department of Commerce Commercial Standard CS-90-58.

