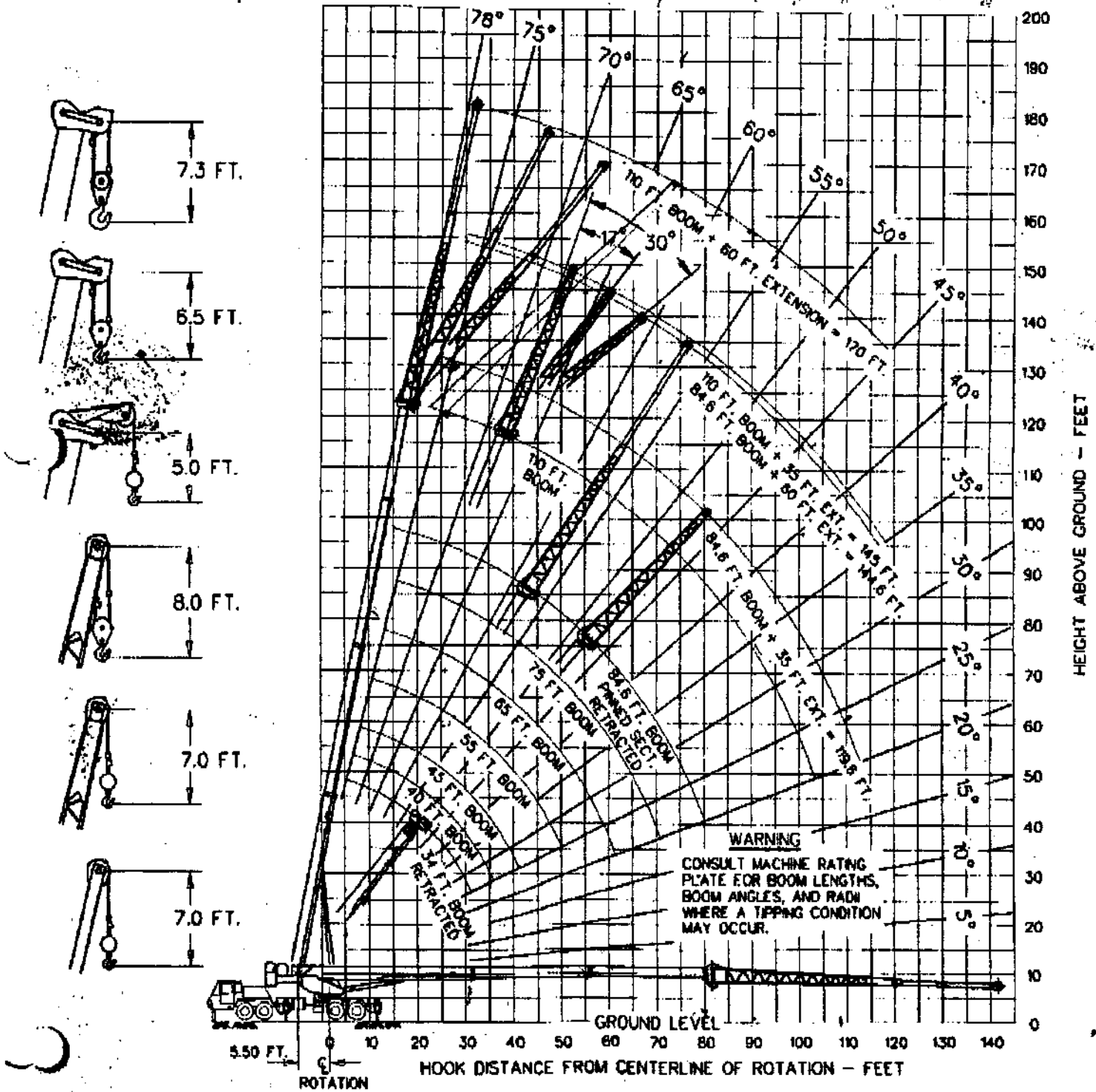


P&H CENTURY T-500

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 48.2 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: 166 gallons (580 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: P1H 8 x 4

WEIGHT: Including ball bearing swing circle, hydraulic outriggers and standard tires and Caterpillar 3208T engine. 33,467 lbs. (15,158 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 492 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 horn, west coast rear view mirror, 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, tail lights, stop lights, front and rear direction signals with emergency flashers, rear license plate light, front, rear and

CARRIER STANDARD EQUIPMENT: Front bumper, full tenders, 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, pottle hook, alcohol evaporator, air dryer, tire inflation kit, and hydraulically operated front stabilizer with 24.0 inch (607 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 RTQ-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 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 "Durafite" 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: FWH 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 18 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.: 6 cylinder, 4.5 in. (114.3 mm) bore, 5.0 in. (127 mm) stroke.
Disp: 638 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./lb. (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, 65 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: 6000 lbs. (2,690 kg.)

Speed and gradeability will vary due to engine performance, vehicle load, and tire condition. 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 80 ft. (24.3 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) S sheave with swivel hook and safety latch. Sheaves are for .75 inch (19 mm) wire rope.

20 ton (18.1 metric ton) S 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 L.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: 18,282 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 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 L.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 L.W.R.C. Strength limit: 10,389 lbs. (4,686 kg.)

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

Line Pull Maximum: 18,282 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 L.W.R.C.

Drum Capacity: .625 in. (16 mm) Dia. Cable: 648 ft. (199 m), 5 layers.

Line Pull Maximum: 15,497 lbs. (6,961 kg.) 1st layer, low speed, 12,950 lbs. (5,827 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 6L71A Engine. 1.00 pump speed to 1.00 engine speed for Caterpillar 8208T Engine.

PUMPS: CATERPILLAR 3207 ENGINE: One Tandem gear pump operating at 2900 full load RPM, with the first section providing 61.5 GPM (135 liter/min.) to the boom hoist and telescope circuits, and the second section providing 38.5 GPM (150 liter/min.) to the main and auxiliary winch circuits.

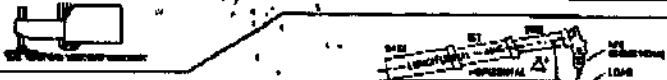
One tandem gear pump operating at 2900 full load RPM, with the first section providing 33.6 GPM (127 liter/min.) to the swing circuit, the second section provides 33.6 GPM (127 liter/min.) to the outrigger or winch boost circuits.

An Eaton 1.85 cu. in. (37.04 cu. cm.) per revolution heavy duty power steering pump operating at full load RPM of 3120 RPM, provides 8 GPM (30.5 liter/min.) to steering circuit.

LOAD RATINGS - PCSA CLASS 10-208

With 8000 lbs. counterweight

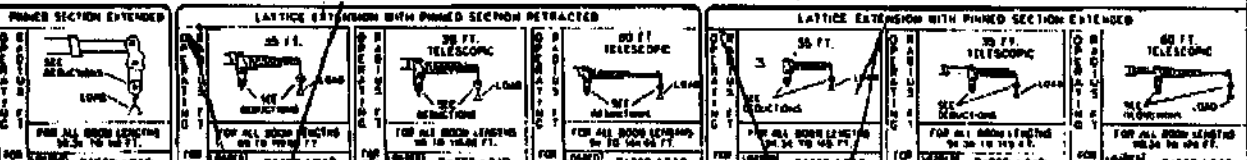
RATED LOADS IN POUNDS ON OUTRIGGERS



POWERED BOOM LENGTH IN FEET - MANUAL RETRACTED

BOOM HEIGHT FEET	24 FT.		48 FT.		45 FT.		55 FT.		85 FT.		75 FT.		84.8 FT.		BOOM HEIGHT FEET					
	SIDE	REAR	SIDE	REAR	SIDE	REAR	SIDE	REAR	SIDE	REAR	SIDE	REAR	SIDE	REAR						
10	84	10000	78	8200	72	8100	78	7500							10					
12	82	8800	82	8100	76	7850	74	8000	72	8000					12					
14	80	7100	82	7100	68	7000	71	8200	74	8400	72	47200			14					
20	43	5400	33	5400	38	5400	33	9300	39	47300	73	38800	75	34700	20					
28	29	4200	43	4700	34	4100	38	41200	35	40800	39	54400	77	29900	28					
30			30	53700	48	3300	32	33500	39	55800	39	10000	68	28100	30					
35					28	27100	37100	43	37100	37100	54	27100	27100	60	22600	35				
40								37	70800	21200	48	38800	31300	56	70800	21200	60	30800	40	
45											41	18100	18900	50	18100	18900	58	18100	18900	45
50											34	13800	13700	43	13800	13700	52	13800	13700	50
55											28	10800	11300	38	10800	11300	47	10800	11300	55
60														32	8400	8200	42	8400	8200	60
65														22	5900	7000	36	5900	7000	65
70																	29	5600	6300	70
75																	29	4500	5200	75
80																				80
85																				85

LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED



BOOM HEIGHT FEET	Pinned Section Extended		Lattice Extension with Pinned Section Retracted		Lattice Extension with Pinned Section Extended		BOOM HEIGHT FEET							
	SIDE	REAR	SIDE	REAR	SIDE	REAR								
25	77	21300	25	78	17000	35	74	16400	23			25		
30	74	19600	30	78	15800	30	78	15150	30			30		
35	72	17800	29	75	14300	35	73	13900	33	76	7100	33	76	7100
40	68	16100	40	71	12500	40	72	12800	40	74	6800	40	76	10700
45	65	14700	45	68	12800	45	68	12000	45	72	6300	45	73	9000
50	63	13400	50	68	11800	50	64	11500	50	71	6100	50	71	8300
55	60	12200	55	63	11100	55	63	10900	55	68	5700	55	69	8000
60	57	10800	60	60	10000	60	60	9800	60	68	5300	60	67	7500
65	53	8500	65	57	8900	65	57	8100	65	64	5400	65	63	7100
70	50	7300	70	54	7800	70	54	6800	70	62	5200	70	62	6800
75	48	6100	75	51	6400	75	51	5700	75	60	5000	75	61	6500
80	45	5100	80	48	5300	80	48	4700	80	57	4900	80	56	6200
85	43	4300	85	46	4600	85	46	3900	85	55	4600	85	55	5900
90	39	3800	90	42	3900	90	42	3100	90	53	4400	90	53	5600
95	35	3400	95	39	2700	95	39	2500	95	47	3700	95	47	3500
100	31	3000	100	35	2300	100	35	2100	100	41	3200	100	41	3000
105	27	2700	105	31	2000	105	31	1800	105	34	2800	105	34	2600

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 MAY OCCUR WITH OR WITHOUT HOOR BLOCKS WITH 35 FT. OR 60 FT. BOOM EXTENSION EXPECTED, IF MAXIMUM OPERATING RADIUS SHOWN WITH LOAD RATINGS FOR RESPECTIVE OPERATING CONFIGURATION IS EXCEEDED.

DEDUCTIONS TO BE MADE FROM LOAD RATINGS IN POUNDS

DESCRIPTION	WITHOUT HOOR BLOCKS OR POINT	HOOR BLOCKS ON POWERED BOOM POINT			
		45 - 30 TON	45 - 30 TON	45 - 30 TON WITH AUXILIARY SHEAVE	45 - 30 TON WITH AUXILIARY SHEAVE
HOOR BLOCK WEIGHT		500	950	700	1150
25 FT. TELESCOPIC - STORED ONLY		700	1100	800	1250
25 FT. TELESCOPIC - 25 TON BALL		3050	2900	3780	4000
25 FT. TELESCOPIC - 30 TON BALL		4700	5050	4880	5300
25 FT. TELESCOPIC - 35 TON BALL		6000	6350	6150	6600
25 FT. TELESCOPIC - 40 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 45 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 50 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 55 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 60 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 65 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 70 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 75 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 80 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 85 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 90 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 95 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 100 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 105 TON BALL		700	1050	800	1200
25 FT. TELESCOPIC - 110 TON BALL		700	1050	800	1200

MANE HOIST RIGGING

PART OF LINE	3/4" DIA. WIRE ROPE BREAKING STRENGTH 58,800 LBS. @ 75 FT. WIRE									
	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD	1400	2800	3300	4400	5000	6400	7700	8900	9900	10800

PART OF LINE	3/8" DIA. WIRE ROPE BREAKING STRENGTH 41,200 LBS. @ 75 FT. WIRE									
	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD	1000	2000	2400	3200	3600	4600	5500	6300	7100	7700

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 & COLUMN HEADED BY Δ IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER APPLYING 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.		35 FT. TELESCOPIC		60 FT. TELESCOPIC					
OPERATING RADIUS IN FEET	LOADING BOOM ANGLE	RATED LOAD IN POUNDS		LOADING BOOM ANGLE	RATED LOAD IN POUNDS		OPERATING RADIUS IN FEET	LOADING BOOM ANGLE	RATED LOAD IN POUNDS		OPERATING RADIUS IN FEET	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	77	9100		45			
50	69	9500		50	69	8900		50	75	8300		50			
55	67	9100		55	67	8500		55	73	7600		55	78	5200	
60	64	8700		60	64	8100		60	71	7000		60	76	5000	
65	61	8400		65	61	7800		65	68	6500		65	75	4800	
70	58	8100		70	58	7500		70	66	6000		70	73	4600	
75	55	7000	7600	75	55	6300	6900	75	64	5600		75	71	4400	
80	52	6000	6600	80	52	5200	5800	80	61	5200		80	69	4100	
85	48	5100	5700	85	48	4300	4900	85	59	4800		85	67	3900	
90	44	4300	4800	90	44	3500	4100	90	56	4100	4500	90	65	3500	
100	35	3000	3500	100	35	2200	2700	100	51	2800	3300	100	61	3100	
110	21	-	2300	110	35	2200	2700	110	44	-	2200	110	57	2800	
				120	39	-	2200	120	37	-	2100	120	52	2000	2400

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.		35 FT. TELESCOPIC		60 FT. TELESCOPIC					
OPERATING RADIUS IN FEET	LOADING BOOM ANGLE	RATED LOAD IN POUNDS		LOADING BOOM ANGLE	RATED LOAD IN POUNDS		OPERATING RADIUS IN FEET	LOADING BOOM ANGLE	RATED LOAD IN POUNDS		OPERATING RADIUS IN FEET	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	77	8100		50			
55	70	8000		55	70	7400		55	75	7600		55	75	6900	
60	67	7700		60	67	7100		60	73	7100		60	73	6400	
65	64	7500		65	64	6900		65	71	6600		65	71	5900	
70	61	7300		70	61	6700		70	68	6200		70	68	5500	
75	57	7200		75	58	6600		75	66	5900		75	66	5200	
80	54	6300	6900	80	54	5600	6200	80	63	5600		80	63	4900	
85	50	5400	5900	85	50	4600	5200	85	61	5300		85	61	4600	
90	46	4500	5100	90	46	3800	4300	90	58	5000		90	58	4300	
100	36	3100	3600	100	36	2300	2800	100	52	3800	4300	100	52	3000	3500
110	19	1800	2300	110	49	3000		110	46	2700	3200	110	46	1900	2400
				120	41	2000	2400	120	38	1800	2200	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 6000 LB. OPTIONAL CWT, INCLUDING 7525 LB. REMOVABLE WT.

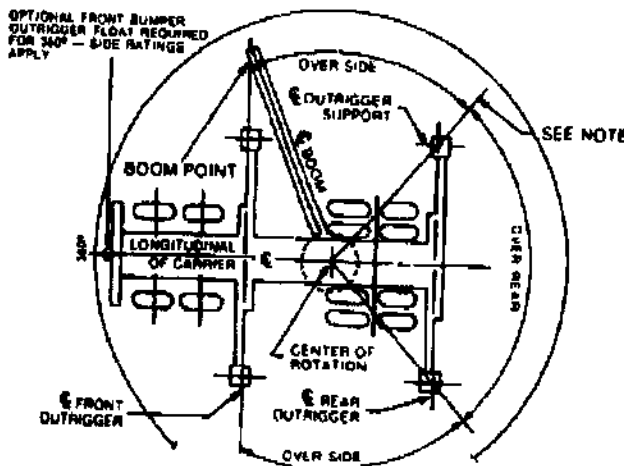
WARNINGS:

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.

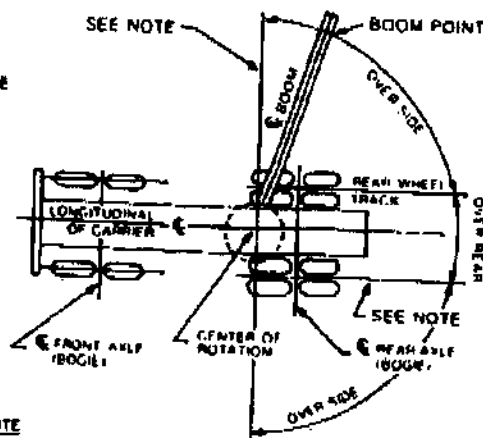
	WEIGHT DISTRIBUTION - FOR PUBLICATION					
	POUNDS			KILOGRAMS		
	GROSS	FRONT	REAR	GROSS	FRONT	REAR
BASIC CRANER	33457	18008	15448	15176	8108	8068
BASIC UPPER	3447	1498	1953	2448	203	2265
STANDARD OPTIONS:						
10 FT. 45000 BOOM						
BOOM HOIST EXT. INST.	1755	1140	445	796	590	200
8000 LB. COUNTERWEIGHT	2085	341	1744	946	472	474
MAIN WINCH MODEL 1501	808	1226	1241	3636	146	8098
MAIN WINCH ROPE 7/8 IN DIA. X 510 FT.	380	301	1381	420	146	625
AUX. WINCH OF 1300 LB. COUNTERWEIGHT	538	149	685	243	68	311
CATERPILLAR 32081 ENGINE	1080	437	643	480	219	261
FRONT TIRES 8 RIMS - (14) 15.00X22.5 16 PR	3648	368	28	1654	141	688
REAR TIRES & RIMS - (8) 17.00X20 16 PR	1237	127	0	561	57	0
TRD POSITION SWING LOCK	2037	0	2037	824	0	824
BASIC MACHINE	9	1	8	4	0	4
	2657	3080	4578	3454	1578	2075
ADJUSTMENTS FOR OPTIONS:						
BASIC MACHINE:						
REMOVABLE 7500 LB. COUNTERWEIGHT	7577	3048	-10573	-3471	1302	4795
10 FT. 45000 BOOM	642	661	-39	291	309	18
FRONT TIRES & RIMS - (14) 15.00X22.5 16 PR	103	103	0	47	47	0
REAR TIRES & RIMS - (8) 17.00X20 16 PR	170	0	170	77	0	0
MULTI POSITION SWING LOCK	33	7	26	10	3	12
ADDITIONS FOR OPTIONS:						
ATTACHMENTS:						
35 FT. BOOM EXTENSION	1735	1333	587	787	614	173
35 FT. - 60 FT. BOOM EXTENSION	2899	2150	750	1315	375	340
BOOM EXTENSION OFFSH. INST.	201	33	-131	91	150	-58
AUXILIARY SHEAVE	152	267	-17	69	121	52
4.5 TON 4 SHEAVE HOOK BLOCK	899	1429	529	408	648	-240
(RIMS) 15.00X22.5 16 PR						
30 TON 3 SHEAVE HOOK BLOCK	946	1502	557	429	681	-752
(RIMS) 15.00X22.5 16 PR						
20 TON 1 SHEAVE HOOK BLOCK	580	184	764	283	-83	346
(RIMS) 15.00X22.5 16 PR						
15 TON BALL HOOK	265	-84	348	120	38	158
REAR WINCH ROPE 7/8 IN DIA. X 480 FT.	487	-197	685	221	-88	318
AUX. WINCH ROPE 7/8 IN DIA. X 480 FT.	730	286	1025	331	-134	465
UPPER:						
DEPENDENT MAIN & AUX. WINCH	49	-12	477	66	5	181
AUX. WINCH PUMPING & CONTROLS	87	-17	94	37	-8	43
HEAT EXCHANGER	53	1	14	24	0	24
PROPANE HEATER	55	-1	56	25	0	25
PROPANE TANK FULL	49	-2	51	25	0	25
FLOODLIGHTS	35	21	15	22	-1	23
CARRIER:						
HYDRAULIC FRONT STABILIZER	485	671	-206	211	304	-93
WHEEL HOOK	26	-10	37	12	-5	17
AIR DRYER	37	18	19	17	9	8

areas of operation

ON OUTRIGGERS



ON RUBBER



NOTE

THESE LINES DETERMINE ANY LIMITING POSITION OF ANY LOAD FOR OPERATION WITH THIS CRANER.

LOAD RATINGS ON TIRES

With 8,000 lb. counterweight

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	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

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.

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 LATTICE 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.

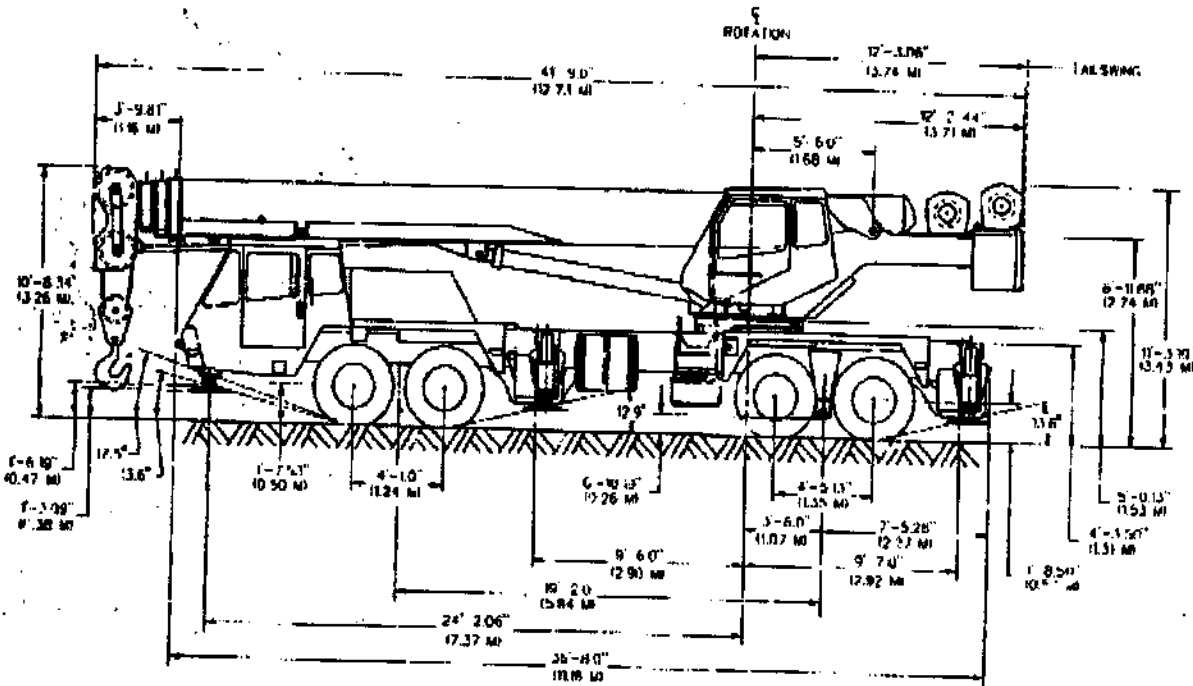
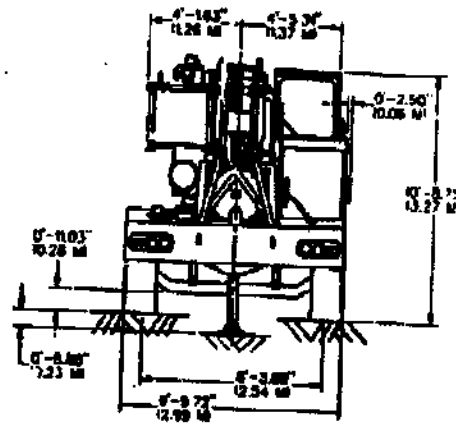
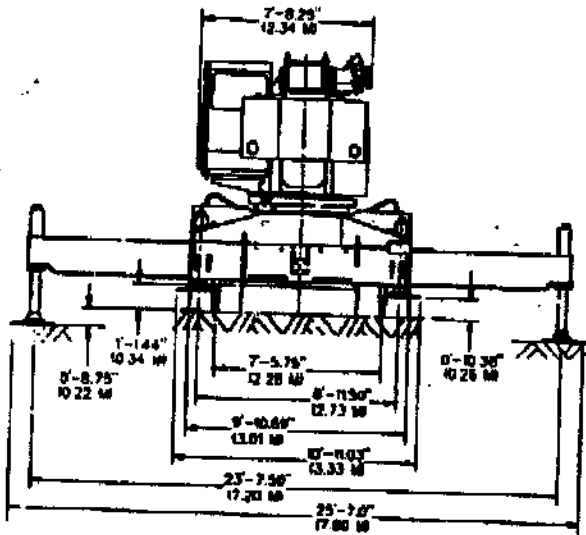
NOTES:

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
15.00X22.5-18PR	130	130	130
17.50X22.5-18PR	125	125	125

DIMENSIONS

NOTE: Dimensions are given in feet and inches - metric conversion is given in parentheses. All dimensions are to the center of the member unless otherwise specified. All dimensions are to the center of the member unless otherwise specified.



Model	Capacity	Weight
Model 1	20,000 lb	12,000 lb
Model 2	30,000 lb	18,000 lb
Model 3	40,000 lb	24,000 lb
Model 4	50,000 lb	30,000 lb
Model 5	60,000 lb	36,000 lb
Model 6	70,000 lb	42,000 lb
Model 7	80,000 lb	48,000 lb
Model 8	90,000 lb	54,000 lb
Model 9	100,000 lb	60,000 lb

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

Model	Capacity	Weight
Model 1	20,000 lb	12,000 lb
Model 2	30,000 lb	18,000 lb
Model 3	40,000 lb	24,000 lb
Model 4	50,000 lb	30,000 lb
Model 5	60,000 lb	36,000 lb
Model 6	70,000 lb	42,000 lb
Model 7	80,000 lb	48,000 lb
Model 8	90,000 lb	54,000 lb
Model 9	100,000 lb	60,000 lb

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. It is manufactured and sold in conformance with U.S. Department of Commerce Commercial Standard CS-60-56.

