



P&H CENTURY 165

65-ton Rough Terrain Crane 186-ft. (56.7m) maximum boom

specifications

ATTACHMENTS:



BOOMS

BOOM (4 SECTION) (STANDARD): 40 ft. (12.2 m) retracted to 126 ft. (38.4 m) extended length, four section boom consisting of a boom base, two hydraulically extended and retracted sections and a fourth manual section which can be hydraulically extended and retracted with pinning by hydraulic cylinders remotely controlled from the operator's cab. Boom point sheaves are five 17.362" (441 mm) dia. main sheaves with roller bearings and idler sheaves with bronze bearings.

BOOM (3 SECTION) (OPTIONAL): 39 ft. (11.9 m) retracted to 96 ft. (29.4 m) extended length, three section boom consisting of a boom base, two hydraulically extended and retracted sections. Boom point sheaves are five main 17.362" (441 mm) dia. sheaves with roller bearings and idler sheaves with bronze bearings.

EXTENSION (OPTIONAL): 39 ft. (11.9 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 and is pinned to the boom head. In the operation position, the extension is offset 2° from the main boom.

TELESCOPIC BOOM EXTENSION (OPTIONAL): 40 ft. (12.2 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 using the winch and pinned into position. In the operation 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. Usable with any extension configuration.

HOOK BLOCKS (OPTIONAL):

- A) 66 Ton — 5 sheaves with swivel hook and safety latch, for 3/4" (19 mm) wire rope.
- B) 20 Ton — 1 sheave with swivel hook and safety latch, for 3/4" (19 mm) wire rope.
- C) 15 Ton — weighted hook with swivel and safety latch, for 3/4" (19 mm) wire rope.
- D) 8.5 Ton — weighted hook with swivel and safety latch, for 3/4" (19 mm) wire rope.

COUNTERWEIGHTS:

11,930 lbs. (5410 kg.) with 3 section boom.
13,230 lbs. (6000 kg.) with 4 section boom.
1,067 lbs. (484 kg.) auxiliary counterweight to be used on units without an auxiliary winch.



OPERATOR'S CAB STANDARD EQUIPMENT: All roading and crane function controls. Front control console includes: engine water temperature gauge, engine oil pressure gauge, fuel gauge, volt meter, transmission temperature gauge, transmission clutch pressure gauge, hydraulic oil temperature gauge, air pressure gauge, hourmeter, winch high speed indicators, anti-two-block warning, boom angle indicator, boom length and radius indicator, dash light and machine level. Deluxe operator's seat with torsion suspension and vinyl covering, seat belt and fire extinguisher, main winch drum turn indicator and rear steer centering light.

OPERATOR'S CAB OPTIONAL EQUIPMENT: Auxiliary winch drum turn indicator, diesel or propane heater, front window fan, windshield wiper, windshield washer, roof window wiper, rotary roof beacon, tachometer and Lexan windows, rear axle lockout override control and cab air conditioning. Control switches and indicators for automatic pinning system for four section boom.

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



CONTROLS: 15.7 inch (400 mm) diameter steering wheel with warning horn, front console mounted hand control levers for swing, telescope, independent auxiliary winch (optional), auxiliary winch (optional), main winch and boom hoist. Front floor mounted foot pedals for swing brake, boom hoist, service brakes and engine throttle. Front console instrument panel contains ignition and engine "start" and "stop" switch, independent rear steer control switch. Side console has hand throttle control, swing lock control and electrical outrigger panel, transmission control lever, transmission high-low range switch, park brake switch, steering mode selector switch, travel stabilizer switch all standard.



MAIN WINCH (STANDARD): P&H Model 2081 with two speed motor, mounted on rear of the 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 standard.

Drum: 16.614 inch (422 mm) pitch diameter, 22.81 inch (579 mm) wide, 27.75 inch (705 mm) flange diameter.

Cable: .75 inch (19 mm) diameter, 6 x 25 extra improved plow steel. Strength limit 16,800 lbs. (7,519 kg.)

Drum Capacity: 778 ft. (237 m) 5 layers.

Line Pull Maximum: 22,853 lbs. (10,367 kg.) 1st layer, low speed, 17,176 lbs. (7,790 kg) 5th layer.

Maximum Available Line Pull for starting load mid-air, 5th layer: 15,000 lbs. (6,802 kg.)

Line Speed Maximum (At Engine No Load High Speed): 462 ft./min. (141 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 counter-weight. 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: 14.25 inch (362 mm) pitch diameter, 18.5 inch (470 mm) wide, 22.52 inch (572 mm) flange diameter.

Cable (Optional): .75 inch (19 mm) diameter, 6 x 25 extra improved plow steel. Strength limit 16,800 lbs. (7,619 kg.)

Cable (Optional): .75 inch (19 mm) diameter, 8 x 25 spin resistance, extra improved plow steel, 7 x 7 x 1 WRC. Strength limit 10,360 lbs. (4,698 kg.)

Line Pull Maximum: 1581 aux: 18,282 lbs. (8,291 kg.) 1st layer, low speed, 13,223 lbs. (5,997 kg) 5th layer.

1581 independent aux: 16,157 lbs. (7329 kg.) 1st layer, low speed.

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

Line Speed Maximum (At Engine No Load High Speed).

1581 aux: 621 ft./min. (189 meter/min.) 5th layer, high speed.

1581 independent aux: 285 ft./min. (87 meter/min.) 5th layer, high speed.



SHEAVE AND DRUM TO WIRE ROPE RATIOS (FITCH DIAMETER)

	Sheave to Wire Rope	Drum to Wire Rope
Main Boom Sheaves .75" Wire Rope	24.15:1	— —
Winch .75" Wire Rope	— —	23.15:1
Aux. Winch .75 Wire Rope	— —	20.0:1



BOOM HOIST: Two 8.268" (210 mm) I.D. cylinders, double-acting. Hydraulically powered raising and lowering with holding valve.

BOOM TELESCOPE: Two 6.5" (165 mm) I.D. cylinders — double-acting. Hydraulically powered raising and lowering with holding valve. Supplied by a single hose loop.

HYDRAULIC SYSTEM

PUMP DRIVE: Gear driven integral with transmission off rear of torque converter housing. Left hand pump drive with SAE "C" 2 and 1 bolt mounting flange and SAE "C" spline for swing and winch boost/steering/outriggers tandem gear pump. Right hand pump drive with SAE "B" 2 bolt mounting flange and SAE "B-B" spline for winch and boom hoist/telescope tandem gear pump. The left hand SAE "C" mounting is equipped with a manual disconnect. Both pump drives have 0.948 pump speed to 1.0 engine speed drive ratio.

PUMPS: One tandem gear pump operating at full load rpm, the cover end section provides 47.3 gpm (179 liter/min.) to the boom hoist and telescope circuits, the shaft end section provides 36.7 gpm (139 liter/min.) to the main and auxiliary winch circuits. One tandem gear pump operating at full load rpm, the cover end section provides 31.7 gpm (120 liter/min.) to the swing circuit, the shaft end section provides 31.7 gpm (120 liter/min.) to the outrigger and steer circuits or winch boost.

OIL RESERVOIR: 177.0 gallons (670 liter) mounted between the rear of the left side of the carrier frame.

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

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

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.

CONTROL VALVES (OPTIONAL): One three spool valves with one spool for main winch, one spool for auxiliary winch and one spool for independent auxiliary winch.

FILTERS: Two return line filters, 7 micron nominal, internally mounted to the hydraulic reservoir.



SWING UNIT: Hydraulic motor driving through gear reducer to pinion gear. Drive pinion supported with outboard bearing housing. 360° continuous rotation to 2.1 RPM full load.

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

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

ELECTRICAL: Electrical system is 24 volt negative ground. Wiring harnesses have protective covering made of braided nylon and are independently clamped to framework. Wire harnesses have environmentally sealed Deutsch connectors. Switches used in operator's cab are environmentally sealed. Toggle type.



TYPE: P&H 4 x 4 x 4, 11 ft. (3.37 meter) wide.

WEIGHT: Including roller bearing swing circle, hydraulic outriggers and standard tires (29.5 x 25 E-3) and Caterpillar engine 46,010 lbs. (20,870 kg.).

FRAME: Rectangular frame members of 100,000 psi (70 kg/mm²) and 80,000 psi (56 kg/mm²) yield strength alloy steels reinforced with box constructed crossmembers of 80,000 psi (56 kg/mm²) yield strength steel.



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

OUTRIGGER BEAMS: 80,000 psi (56 kg/mm²) yield strength alloy steel box extending to a maximum spread of 23' 7" (7.2 meter) from centerline of float to centerline float with the machine fully raised on the outriggers. Retracted width of the outriggers without floats is 10' 6" (3.2M).

OUTRIGGERS 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.



TRANSMISSION:

TYPE: Power shift with high/low range with torque converter.

GEARS: 6 speed forward and 3 speed reverse.

GEAR SELECTION: Electrically controlled and operated.

RANGE SELECTION: Electrically controlled and pneumatically operated.

REAR AXLE DISCONNECT: 2 wheel drive/4 wheel drive. Electrically controlled and pneumatically operated.

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

AIR CLEANER: Donaldson "FHG16-0049" two-stage primary dry air cleaner with "Duralife" filter media restriction indicator.

MUFFLER: "Silent Partner" muffler.

ELECTRICAL: 24 volt system with negative ground. Two kinds of batteries are selective (1) Two 8D batteries with a reserve capacity of 442 min. and CCA at 0°F of 970 amps. (2) Two 4D batteries with reserve capacity of 308 min. and CCA at 0°F of 791 amps. Harnesses have environmentally sealed Deutsch connectors. 24 volt starting system.

FUEL TANK: One steel tank, 79 gal. (300 liter), mounted on right side of carrier between the tires.

FRONT AXLE: Planetary drive and steer axle. 26.325:1 total reduction.

REAR AXLE: Planetary drive and steer axle. 26.325:1 total reduction. No-spin differential is optional.

SERVICE BRAKES: Air over hydraulic brakes on all four wheels. Disc type. Two caliper for each wheel.

PARKING BRAKES: Maxi spring set air chamber on 13.11 inch x 2.95 inch (333 mm dia. x 75 mm wide) drum and shoe on input yoke of rear axle. Spring applied and air released for safety.

SUSPENSION: Rigid mounted front axle. Rear axle is pivot mounted with automatic hydraulic lockout cylinders. Total oscillation of 10.4 inch (265 mm) is attainable.



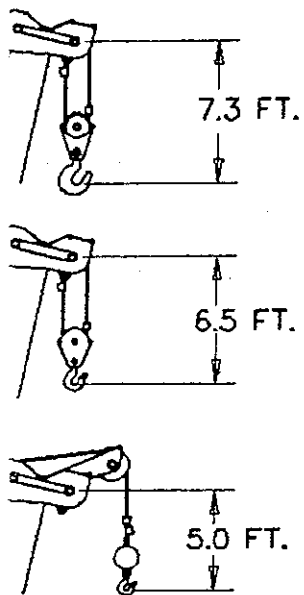
STEERING: Hydrostatic type pressure compensated system fully controlled by a steering wheel with two hydraulic power assist cylinders on each axle.

STEERING MODES: Front steer only, crab steer and four wheel steer and independent rear steer are standard. Activation of the different steering modes is by electrical switch on the side control console; except independent rear steer, which is controlled by toggle switch on the front console.

TIRES: Optional 26.5 x 25-26 PR tubeless rock tread (E3). Standard 29.5 x 25-28 PR tubeless rock tread (E3).

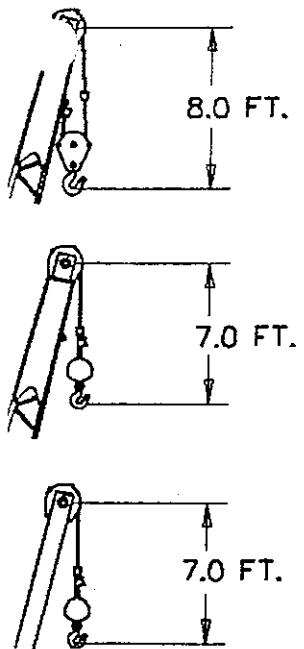
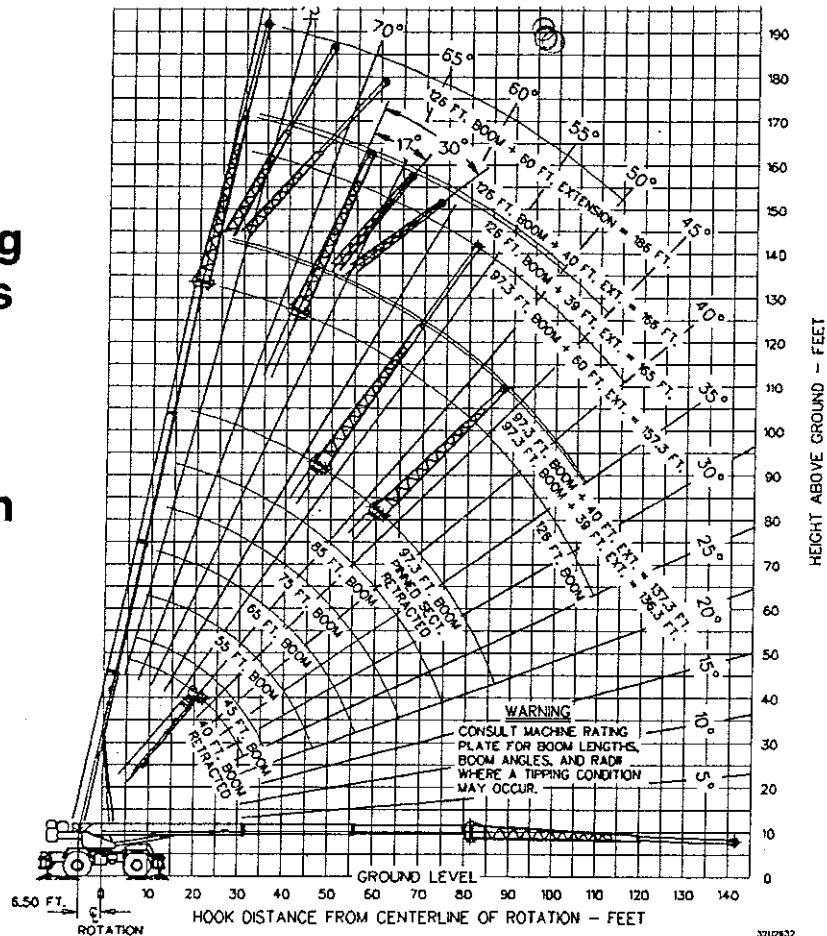
LOWER STANDARD EQUIPMENT: Sliding engine hood, fenders with side storage compartments, tool box, tow lugs, hydraulic pump disconnect, automatic moisture ejector for air system, rear axle disconnect, oil to water transmission cooler and oil to air hydraulic oil cooler, back-up alarm and highway lights.

LOWER OPTIONAL EQUIPMENT: Rear view mirrors, starting aid, front and rear pintle hooks, alcohol evaporator installation, air dryer installation, tire inflation kit, oscillating axle lockout override.



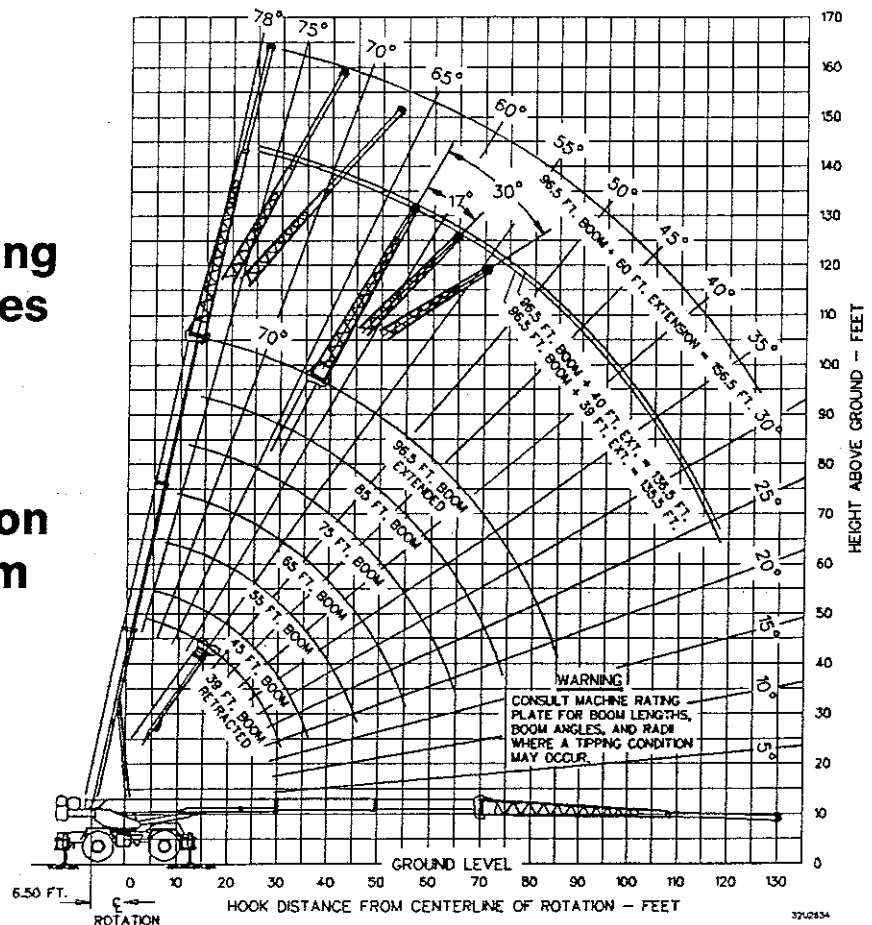
Working Ranges

4 Section Boom



Working Ranges

3 Section Boom



LOAD RATINGS — 4 Section Boom

PCSA Class 10-278

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FORMATION:

CRANE LOAD RATINGS DO NOT EXCEED 85% OF TIPPING.

LOADINGS ABOVE THE HEAVY LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.

REDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED LATTICE EXTENSION, OPTIONAL ATTACHMENTS, HOOKS AND HOOKBLOCKS (SEE DEDUCTIONS CHART). WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.

RARE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS FULLY EXTENDED AND SET TO DISTANCE OF 11 FEET 9 3/4 INCH FROM THE LONGITUDINAL AXIS OF THE CARRIER TO THE OUTRIGGER FLOAT PIVOT CONNECTION WITH ALL LOAD REMOVED FROM CARRIER WHEELS.

COUNTERWEIGHT 13230 LBS. NONE REMOVABLE.

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	85 TON	8.5 - 20 TON WITH AUXILIARY SHEAVE	85 TON WITH AUXILIARY SHEAVE	
HOISTING LOAD FROM POWERED BOOM	HOOK BLOCK WEIGHT		---	580	1130	775	1325
	39 FT. LATTICE EXTENSION	STOWED	---	800	1340	990	1530
		ERECTED ONLY	---	4070	4610	4260	4800
		8.5-15 TON BALL	---	3780	6300	5950	6490
		20 TON BLOCK	---	6170	6710	6360	6900
	40 FT. LATTICE EXTENSION	STOWED	---	820	1170	820	1360
		ERECTED ONLY	---	5680	6220	5870	6410
		8.5-15 TON BALL	---	7390	7930	7580	8120
		20 TON BLOCK	---	7800	8340	7990	8540
	60 FT. LATTICE EXTENSION	ERECTED ONLY	---	5680	6220	5870	6410
		8.5-15 TON BALL	---	7840	8380	8030	8570
		20 TON BLOCK	---	8380	8900	8550	9090
HOISTING LOAD FROM EXTENSION	39 FT. LATTICE EXTENSION	8.5-15 TON BALL	470	820	1140	930	1250
		20 TON BLOCK	580	930	1250	1040	1370
	40 FT. LATTICE EXTENSION	8.5-15 TON BALL	470	810	1130	920	1240
		20 TON BLOCK	580	920	1240	1040	1360
	60 FT. LATTICE EXTENSION	8.5-15 TON BALL	470	770	1050	870	1150
		20 TON BLOCK	580	880	1160	980	1260

NOTE: THESE LOAD DEDUCTIONS APPLY ONLY TO P&H SUPPLIED EQUIPMENT.
(SEE INFORMATION NOTE #3)

MAIN HOIST REEVING

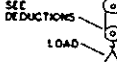
3/4 DIA. WIRE ROPE BREAKING STRENGTH 56,800 LBS. 6 X 25 FW IWRC										
PART OF LINE	1	2	3	4	5	6	7	8	9	10
MAXIMUM LOAD	15000	30000	45000	60000	75000	90000	105000	120000	135000	

AUXILIARY HOIST REEVING

3/4 DIA. WIRE ROPE BREAKING STRENGTH 51800 LBS. 8 x 25 IWRC										
5/8 DIA. WIRE ROPE BREAKING STRENGTH 41200 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

LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED

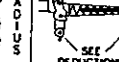
PINNED SECTION EXTENDED

RADIUS IN FEET OR 20 FOOT ONLY	 SEE DEDUCTIONS LOAD	
	FOR ALL BOOM LENGTHS 66.7 TO 128 FT.	
OPERATING IN FT.		
FOR 136.3 FOOT BOOM ONLY		
BOOM ANGLE IN DEGREES	BOOM ANGLE IN DEGREES	RATED LOAD IN POUNDS
360°		
30	78	20700
35	74	19000
40	71	17500
45	69	16500
50	67	15000
55	64	14000
60	61	12800
65	59	11800
70	56	9900
75	53	8500
80	49	7300
85	46	6300
90	43	5300
95	35	3800
100	25	2600

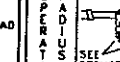
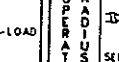
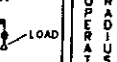
NOTE:

WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES,
NOT OPERATING RADII.

LATTICE EXTENSION WITH PINNED SECTION RETRACTED

RADIUS IN FEET OR 20 FOOT ONLY	 39 FT. SEE DEDUCTIONS LOAD		 40 FT. SEE DEDUCTIONS LOAD		 60 FT. SEE DEDUCTIONS LOAD		
	FOR ALL BOOM LENGTHS 78 TO 136.3 FT.		FOR ALL BOOM LENGTHS 80 TO 137.3 FT.		FOR ALL BOOM LENGTHS 100 TO 157.3 FT.		
OPERATING IN FT.							
FOR 137.3 FOOT BOOM ONLY							
BOOM ANGLE IN DEGREES	BOOM ANGLE IN DEGREES	RATED LOAD IN POUNDS	BOOM ANGLE IN DEGREES	RATED LOAD IN POUNDS	BOOM ANGLE IN DEGREES	RATED LOAD IN POUNDS	
360°							
30	77	16000	30	77	15600	30	
35	75	14800	35	75	14200	35	77
40	72	13700	40	73	13000	40	75
45	70	12800	45	71	12100	45	73
50	68	12000	50	68	11100	50	72
55	66	11000	55	66	10300	55	70
60	64	10500	60	64	9700	60	68
65	61	9900	65	61	9100	65	66
70	59	9400	70	59	8600	70	64
75	56	8900	75	57	8100	75	62
80	53	7800	80	54	6900	80	60
85	51	6600	85	51	5900	85	57
90	48	5600	90	48	4900	90	55
95			100	42	3400	100	51
100			110	34	2100	110	45
						120	39

LATTICE EXTENSION WITH PINNED SECTION EXTENDED

RADIUS IN FEET OR 20 FOOT ONLY	 39 FT. SEE DEDUCTIONS LOAD		 40 FT. SEE DEDUCTIONS LOAD		 60 FT. SEE DEDUCTIONS LOAD		
	FOR ALL BOOM LENGTHS 107.7 TO 165 FT.		FOR ALL BOOM LENGTHS 108.7 TO 166 FT.		FOR ALL BOOM LENGTHS 128.7 TO 180 FT.		
OPERATING IN FT.							
FOR 165 FOOT BOOM ONLY							
BOOM ANGLE IN DEGREES	BOOM ANGLE IN DEGREES	RATED LOAD IN POUNDS	BOOM ANGLE IN DEGREES	RATED LOAD IN POUNDS	BOOM ANGLE IN DEGREES	RATED LOAD IN POUNDS	
360°							
30			30		30		
35			35		35		
40	77	11200	40	77	10300	40	
45	75	10500	45	75	9800	45	78
50	74	9800	50	74	9000	50	76
55	72	9200	55	72	8400	55	75
60	70	8600	60	70	7800	60	73
65	68	8100	65	68	7300	65	71
70	66	7700	70	66	6800	70	70
75	64	7200	75	65	6400	75	68
80	62	6800	80	63	6000	80	66
85	60	6500	85	61	5600	85	65
90	58	6100	90	59	5300	90	63
100	54	4800	100	54	4000	100	59
110	49	3500	110	49	2800	110	56
120	43	2500	120	44	1800	120	52

NOTE:

WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES,
NOT OPERATING RADII.

NOTE:

WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY BOOM ANGLES,
NOT OPERATING RADII TO DETERMINE LOAD RATING.

FOR BOOM ANGLES NOT SHOWN, USE RATING OF NEXT LOWER BOOM ANGLE.

FOR BUCKET RATINGS ON 60 FT. EXTENSIONS, DEDUCT 20% FROM LOAD RATINGS.

WARNING: A TIPPING CONDITION WILL OCCUR (WITH OR WITHOUT A HOOKBLOCK) WITH 39, 40, OR 60 FT. BOOM EXTENSION DUE TO THE FOLLOWING CONDITIONS:

1. DO NOT EXCEED 120 FT. OPERATING RADIUS WITH PINNED MAIN BOOM SECTION RETRACTED.
2. DO NOT EXCEED 140 FT. OPERATING RADIUS WITH PINNED MAIN BOOM SECTION EXTENDED.

NOTE: 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.



LOAD RATINGS — 3 Section Boom PCSA Class 10-270

IN POUNDS	
POWERED BOOM POINT	
6.5 - 20 TON WITH AUXILIARY SHEAVE	65 TON WITH AUXILIARY SHEAVE
775	1325
990	1530
4260	4800
5950	6490
6360	6900
820	1360
5870	6410
7580	8120
7990	8540
5870	6410
8030	8570
8550	9090
930	1250
1040	1370
920	1240
1040	1360
870	1150
980	1260
PLIED EQUIPMENT.	
X 25 F.W. IWRC	
8	9
120000	130000
X 25 IWRC	
X 25 IWRC	
8	9
80000	100000

RATED LOADS IN POUNDS ON OUTRIGGERS		POWER BOOM LENGTH IN FEET - MANUAL RETRACTED		RATED LOADS IN POUNDS ON OUTRIGGERS	
OPERATING RADIUS	BOOM LENGTH	BOOM ANGLE	BOOM LENGTH	BOOM ANGLE	OPERATING RADIUS
10	39 FT.	360°	45 FT.	360°	10
12	39 FT.	360°	45 FT.	360°	12
15	39 FT.	360°	45 FT.	360°	15
20	39 FT.	360°	45 FT.	360°	20
25	39 FT.	360°	45 FT.	360°	25
30	39 FT.	360°	45 FT.	360°	30
35	39 FT.	360°	45 FT.	360°	35
40	39 FT.	360°	45 FT.	360°	40
45	39 FT.	360°	45 FT.	360°	45
50	39 FT.	360°	45 FT.	360°	50
55	39 FT.	360°	45 FT.	360°	55
60	39 FT.	360°	45 FT.	360°	60
65	39 FT.	360°	45 FT.	360°	65
70	39 FT.	360°	45 FT.	360°	70
75	39 FT.	360°	45 FT.	360°	75
80	39 FT.	360°	45 FT.	360°	80
85	39 FT.	360°	45 FT.	360°	85

INFORMATION:

- CRANE LOAD RATINGS DO NOT EXCEED 85% OF TIPPING.
- RATINGS ABOVE THE HEAVY LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY.
- DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED LATTICE EXTENSION, OPTIONAL ATTACHMENTS, HOOKS AND HOOKBLOCKS (SEE DEDUCTIONS CHART). WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
- CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS FULLY EXTENDED AND SET TO A DISTANCE OF 11 FEET 9 3/4 INCH FROM THE LONGITUDINAL AXIS OF THE CARRIER TO THE OUTRIGGER FLOAT PIVOT CONNECTION WITH ALL LOAD REMOVED FROM CARRIER WHEELS.
- COUNTERWEIGHT OF 12000 LBS. WITH NONE REMOVABLE.

EXTENDED	
60 FT.	SEE DEDUCTIONS
OR ALL BOOM LENGTHS 128.7 TO 186 FT.	
BOOM ANGLE	RATED LOAD IN POUNDS
360°	
78	8000
76	7500
75	7000
73	6600
71	6100
70	5700
68	5400
66	5100
65	4800
63	4500
61	4000
60	3500
58	2800
56	1900

LOAD RATINGS IN POUNDS WITH OUTRIGGERS EXTENDED	
LATTICE EXTENSION	
OPERATING RADIUS	BOOM LENGTH
39 FT.	40 FT.
60 FT.	60 FT.
FOR ALL BOOM LENGTHS 78 TO 135.5 FT.	FOR ALL BOOM LENGTHS 78 TO 135.5 FT.
BOOM ANGLE	RATED LOAD IN POUNDS
360°	
30	77
35	75
40	72
45	70
50	68
55	66
60	63
65	61
70	58
75	56
80	53
85	50
90	47
100	41
110	33
120	23

WARNING:

DO NOT EXCEED 130 FT. RADIUS (WITH OR WITHOUT HOOK BLOCK) WITH 80 FT. BOOM EXTENSION OR A TIPPING CONDITION WILL OCCUR.

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 BOOM RATINGS ON 80 FT. EXTENSION, DEDUCT 20% FROM LOAD RATINGS.

WARNINGS:

- LOADED BOOM ANGLES AT SPECIFIED BOOM LENGTHS OR AN APPROXIMATION OF THE OPERATING RADIUS. THE BOOM ANGLE BEFORE LOADING SHOULD BE GREATER TO ACCORD DEFLECTIONS. DO NOT EXCEED THE OPERATING RADIUS RATED LOADS.
- POSITIONING OR OPERATION OF POWERED BOOM LENGTH: RADI BEYOND THE MAXIMUMS OR MINIMUMS SHOWN, IS NOT INTENDED OR APPROVED.
- POSITIONING OR OPERATION OF LATTICE EXTENSIONS AT ANGLES BEYOND THE MAXIMUMS OR MINIMUMS SHOWN, IS INTENDED OR APPROVED.
- FOR POWERED BOOM LENGTHS NOT SHOWN, USE RATING NEXT LONGER POWERED BOOM. FOR LOAD RADI NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.
- CRANE LOAD RATINGS ON OUTRIGGERS ARE BASED ON F SUSPENDED LOADS WITH THE MACHINE LEVELED AND SET ON A FIRM UNIFORM SUPPORTING SURFACE. NO ATTEMPT BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND ANY DIRECTION.
- PRACTICAL WORKING LOADS DEPEND ON SUPPORTING SURROUNDINGS, EXPERIENCE OF PERSONNEL, AND PROPER DING, ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY OPERATOR.
- THE MAXIMUM LOAD WHICH MAY BE TELESCOPED IS LIMIT HYDRAULIC PRESSURE, BOOM ANGLE, AND POWERED BOOM LUBRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE A LOAD WITHIN THE LIMITS OF THE LOAD RATING CHART.
- WHEN LIFTING A LOAD ALL SECTIONS OF POWERED BOOM BE EQUALLY EXTENDED WITHIN ONE FOOT.

DEFINITIONS:

- OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM AXIS OF ROTATION BEFORE LOADING TO THE CENTER OF VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED.
- 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 LOAD AT RATED RADIUS.

ATED
SAFE



LOAD RATINGS FOR OFFSET EXTENSION WITH 126 FOOT BOOM

LC
PC

OPERATING RADIUS IN FEET	RATED LOAD IN POUNDS
10	58
12	63
15	60
20	51
25	40
30	26
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	

- INFORMATION
1. CRANE LOAD
 2. RATINGS ARE COMPETENCE
 3. DEDUCTIONS ATTACHMENT OTHER LOAD
 4. CRANE LOAD A DISTANCE OUTRIGGER F
 5. COUNTERWEI

OPERATING RADIUS IN FEET	RATED LOAD IN POUNDS
30	76
35	74
40	71
45	69
50	67
55	64
60	61
65	59
70	56
75	53
80	49
85	46
90	43
100	35
110	25

NOTE:

1. WHEN BO NOT OPE
2. FOR BOO BOOM AN
3. FOR BUC FROM LO

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LOAD RATINGS IN POUNDS FOR 17° OFFSET WITH OUTRIGGERS EXTENDED											
LATTICE EXTENSION WITH PINNED SECTION RETRACTED						LATTICE EXTENSION WITH PINNED SECTION EXTENDED					
OPERATING RADIUS IN FEET	39 FT.	40 FT.	60 FT.	OPERATING RADIUS IN FEET	39 FT.	40 FT.	60 FT.	OPERATING RADIUS IN FEET	39 FT.	40 FT.	60 FT.
FOR ALL BOOM LENGTHS 79 TO 136.3 FT.	FOR ALL BOOM LENGTHS 80 TO 137.3 FT.	FOR ALL BOOM LENGTHS 100 TO 137.3 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.
LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY
36	78	9300	36	76	8000	36	77	8300	36	77	7300
40	76	8900	40	74	7700	40	75	8100	40	75	7100
45	74	8500	45	72	7300	45	73	7700	45	73	6900
50	72	8100	50	70	7000	50	71	7300	50	71	6400
55	69	7800	55	68	6700	55	69	6900	55	69	6000
60	67	7500	60	66	6400	60	67	6500	60	67	5700
65	65	7200	65	64	6200	65	65	6200	65	65	5400
70	62	7000	70	62	6000	70	62	6000	70	62	5100
75	60	6800	75	60	5800	75	60	5800	75	60	4800
80	57	6600	80	58	5600	80	58	5600	80	58	4600
85	54	6400	85	55	5400	85	55	5400	85	55	4400
90	52	6200	90	52	5200	90	52	5200	90	52	4200
100	45	4500	100	46	3900	100	46	3900	100	46	3700
110	37	3200	110	38	2500	110	38	2500	110	38	2300
120			120	44	2800	120	44	2800	120	44	2600

LOAD RATINGS IN POUNDS FOR 30° OFFSET WITH OUTRIGGERS EXTENDED											
LATTICE EXTENSION WITH PINNED SECTION RETRACTED						LATTICE EXTENSION WITH PINNED SECTION EXTENDED					
OPERATING RADIUS IN FEET	39 FT.	40 FT.	60 FT.	OPERATING RADIUS IN FEET	39 FT.	40 FT.	60 FT.	OPERATING RADIUS IN FEET	39 FT.	40 FT.	60 FT.
FOR ALL BOOM LENGTHS 79 TO 136.3 FT.	FOR ALL BOOM LENGTHS 80 TO 137.3 FT.	FOR ALL BOOM LENGTHS 100 TO 137.3 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.	FOR ALL BOOM LENGTHS 107.7 TO 163 FT.
LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY	LOADED BOOM ONLY
36	77	7100	36	77	6300	36	77	6800	36	77	5900
40	75	6900	40	75	6100	40	75	6600	40	75	5800
45	72	6700	45	73	5900	45	73	6400	45	73	5600
50	70	6500	50	70	5700	50	70	6200	50	70	5500
55	68	6300	55	68	5500	55	68	6000	55	68	5300
60	65	6100	60	66	5400	60	66	5800	60	66	5000
65	63	6000	65	63	5200	65	63	5600	65	63	4700
70	60	5900	70	60	5100	70	60	5400	70	60	4500
75	57	5800	75	58	5000	75	58	5200	75	58	4400
80	54	5700	80	55	4900	80	55	5000	80	55	4200
90	48	4900	90	48	4200	90	48	4400	90	48	4100
100	40	3400	100	40	2700	100	40	3100	100	40	2400
110			110			110			110		
120			120	48	2800	120	48	3100	120	48	2500
130			130	40	2000	130	42	2100	130	42	2100

LOAD RATINGS FOR OFFSET EXTENSION WITH 96.5 FOOT BOOM

LOAD RATINGS IN POUNDS FOR 17° OFFSET WITH OUTRIGGERS EXTENDED						LOAD RATINGS IN POUNDS FOR 30° OFFSET WITH OUTRIGGERS EXTENDED					
39 FT. LATTICE EXTENSION			40 FT. LATTICE EXTENSION RETRACTED			60 FT. LATTICE EXTENSION EXTENDED			39 FT. LATTICE EXTENSION		
OPERATING RADIUS IN FEET	FOR ALL BOOM LENGTHS 78 TO 135.3 FT.	RATED LOAD IN POUNDS	OPERATING RADIUS IN FEET	FOR ALL BOOM LENGTHS 78 TO 135.3 FT.	RATED LOAD IN POUNDS	OPERATING RADIUS IN FEET	FOR ALL BOOM LENGTHS 94 TO 156.5 FT.	RATED LOAD IN POUNDS	OPERATING RADIUS IN FEET	FOR ALL BOOM LENGTHS 78 TO 135.3 FT.	RATED LOAD IN POUNDS
35	78	9100	35	77	7900	35	77	7000	35	77	7000
40	76	8700	40	74	7500	40	74	6800	40	74	6800
45	74	8300	45	72	7200	45	72	6600	45	72	6600
50	72	8000	50	70	6900	50	70	6400	50	70	6400
55	69	7700	55	68	6600	55	68	6200	55	68	6200
60	67	7400	60	66	6300	60	66	6000	60	66	6000
65	65	7100	65	64	6100	65	64	5800	65	64	5800
70	62	6900	70	62	5900	70	62	5600	70	62	5600
75	60	6700	75	60	5700	75	60	5400	75	60	5400
80	57	6500	80	58	5500	80	58	5200	80	58	5200
85	54	6300	85	55	5300	85	55	5000	85	55	5000
90	51	6100	90	52	5100	90	52	4800	90	52	4800
100	45	4800	100	45	4200	100	45	3800	100	45	3800
110	37	3600	110	38	2900	110	38	3000	110	38	2900
120			120			120			120		
130			130	37	2100	130	37	2100	130	37	2100

- NOTES:
1. SEE MAIN LOAD RATING CHART ON OUTRIGGERS FOR WARNINGS, DEFINITIONS, INFORMATION AND REEVEING.
 2. FOR BOOM 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.
- WARNINGS:
1. DO NOT EXCEED 140 FT. RADIUS (WITH OR WITHOUT HOOK BLOCKS) WITH 39 FT., 40 FT. OR 60 FT. BOOM EXTENSION OR A TIPPING CONDITION.
 2. DEDUCTIONS FROM OFFSET EXTENSION LOAD RATINGS MUST BE APPLIED ACCORDING TO DEDUCTION TABLE SHOWN ON MAIN LOAD RATING CHART.

USE OF THIS DOCUMENT IN EXCESS OF GIVEN LOADS AND DEVIATION OF INSTRUCTIONS IS AN UNSAFE PRACTICE AND WILL RESULT IN DENIAL OF WARRANTY.

**POWER PLANTS:**

MAKE: Detroit Diesel Allison 6V53T (Optional).

MAX. HP: 228 HP (170 kw) at 2600 rpm.

MAX. TORQUE: 534 ft./lbs. (74 kg. - m) at 1600 rpm.

NO. CYL: 6 cylinder, 3.875 inch (98 mm) bore, 4.50 inch (114 mm) stroke.

DISP: 318 cu. in. (5.21 liter).

CYCLE: 2.

ALTERNATOR: Leece Neville 24 volt, NEG GRN 65 amp.

ELECTRICAL: 24 volt run, 24 volt starting.

ASPIRATION: Turbocharged.

AIR COMPRESSOR: 12 cfm @ 1250 rpm (340 liters/min.).

*THEORETICAL PERFORMANCE: Low Gear 2.2 mph (3.5 KM/HR) 47% grade at 1.0 MPH.

High Gear 24.4 mph (39 KM/HR) 4% grade

MAKE: Caterpillar 3208T (Standard).

MAX. HP: 225 HP (168 kw) at 2600 rpm.

MAX. TORQUE: 564 ft./lbs. (78 kg. - m) at 1300 rpm.

NO. CYL: 6 cyl., 4.50 inches (114 mm) bore, 5.00 inch (127 mm) stroke.

DISP: 636 cu. in. (10.42 liter).

CYCLE: 4.

ALTERNATOR: 24 volt, NEG GRN 50 amp. •

ELECTRICAL: 24 volt run, 24 volt starting.

ASPIRATION: Turbocharged.

AIR COMPRESSOR: 12 CFM @ 1250 RPM (340 liters/min.)

*THEORETICAL PERFORMANCE: Low Gear 2.2 mph (3.5 KM/HR) 48% grade at 1.0 mph.

High Gear 24.4 mph (39 KM/HR) 4% grade

*Theoretical performance is based on the following:

GVW: 93,700 lbs. (42,500 kg.)

Front Tires: 29.5 x 25 E3.

Rear Tires: 29.5 x 25 E3.

Counterweight: 13,230 lbs. (6,000 kg.).

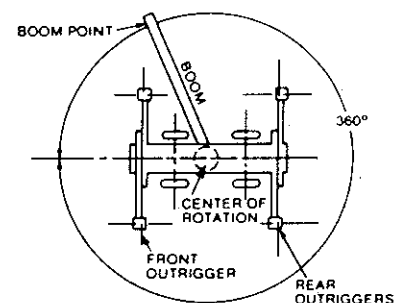
Boom: 40 ft. (12 m) to 126 ft. (38.4 m).

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

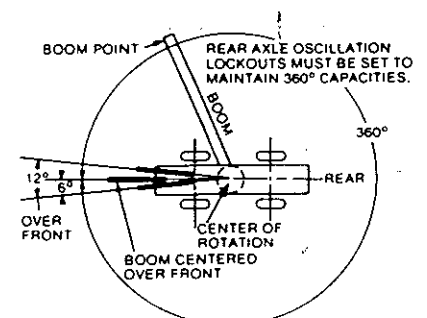
	WEIGHT DISTRIBUTION					
	POUNDS			KILOGRAMS		
	GROSS	FRONT	REAR	GROSS	FRONT	REAR
BASIC CARRIER	30360	15091	15269	13771	6845	6926
BASIC UPPER	6832	1495	5337	3099	678	2421
STD. OPT. FOR 65 TON						
126 FT. 4SECT. BOOM	21473	28389	-6916	9740	12877	-3137
EASYRIDE B.H.CYL. INST.	3386	3170	216	1536	1438	98
13230 LB. CTWT.	13241	-7187	20428	6006	-3260	9266
MAIN WINCH (2081)	1799	-664	2463	816	-301	1117
M.W. ROPE .75DIA X550 FT.	584	-94	678	265	-43	308
SLAB CTWT. OR AUX. WINCH	1086	-611	1698	493	-277	770
CAT.3208T ENG. W/P-SHIFT	3569	2926	640	1619	1327	292
29.5X25 E-3 TIRES	7363	3682	3682	3340	1670	1670
REAR AXLE INST. STD.	4718	-7	4725	2140	-3	2143
SINGLE POS. HOUSE LOCK	11	6	5	5	3	2
60/65 TON-5SHV. HKBLK. HOOKED ON FRONT O/R FOR TRAVEL	1122	1875	-753	509	851	-342
STEEL BOOM POINT SHV. & POINT PIN	408	1221	-813	185	554	-369
BASIC MACHINE	95547	49377	46170	43524	22402	21122
ADJUSTMENTS FOR OPTIONS:						
ATTACHMENT OPTIONS:						
AUX. SHEAVE INST.	154	481	-326	70	218	-148
40 TO 60 FT. EXT. INST.	2805	3791	-986	1272	+1720	-448
20 TON-ISHV. HOOKBLOCK	580	1736	-1156	263	787	-524
15 TON-BALLHOOK ON AUX. SHV.	467	1425	-958	161	596	-435
8.5 TON-BALLHOOK ON AUX. SHV.	265	809	-544	120	367	-247
OFFSET BOOM EXT. INST. MATL.	148	437	-289	67	198	-131
B.H. CYL. W/O EASYRIDE	-254	-94	-160	-115	-43	-72
39 FT. BM. EXT. INSTL.	1752	2716	-964	795	1232	-437
POWER PLANT OPTIONS						
DDA 6V53T ENG. W/P-SHIFT	60	49	11	27	22	5
REAR AXLE INST. NO-SPIN	0	0	0	0	0	0
WINCH OPTIONS						
INDEPENDENT MAIN & AUX. WINCH	49	3	46	22	1	21
A.W. ROPE .75DIA X525 FT.	558	-313	871	253	-142	395
CAB OPTIONS						
HEATER-DIESEL	55	3	52	25	1	24
HEATER-LP	53	3	50	24	1	23
LP TANK-FULL	49	1	48	22	0	22
FLOODLIGHTS	29	32	-3	13	14	-1
MULTI-POSITION HOUSELOCK	42	24	-18	19	11	8
MISC. OPTIONS						
PINTLE HOOK FRONT	11	15	-4	5	7	-2
PINTLE HOOK REAR	11	-7	18	5	-3	8
60/65 TON HOOKBLOCK @ BM POINT	0	1484	-1484	0	673	-673

areas of operation

ON OUTRIGGERS

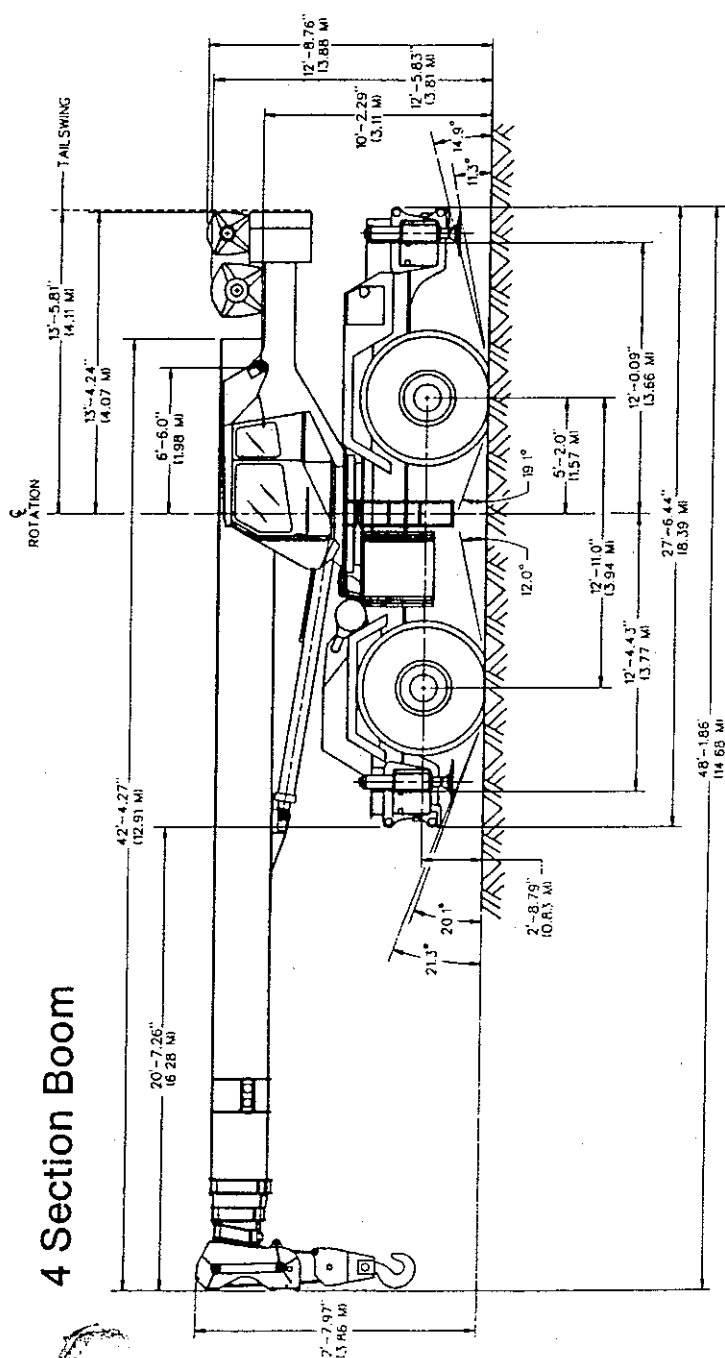


ON TIRES

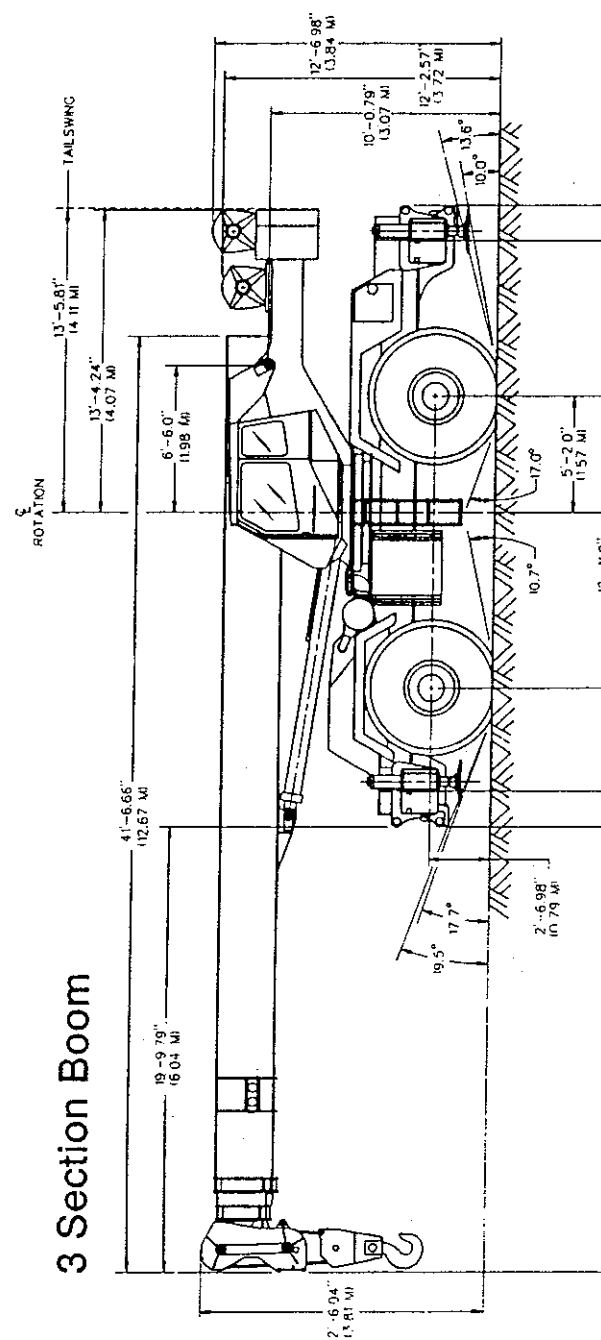


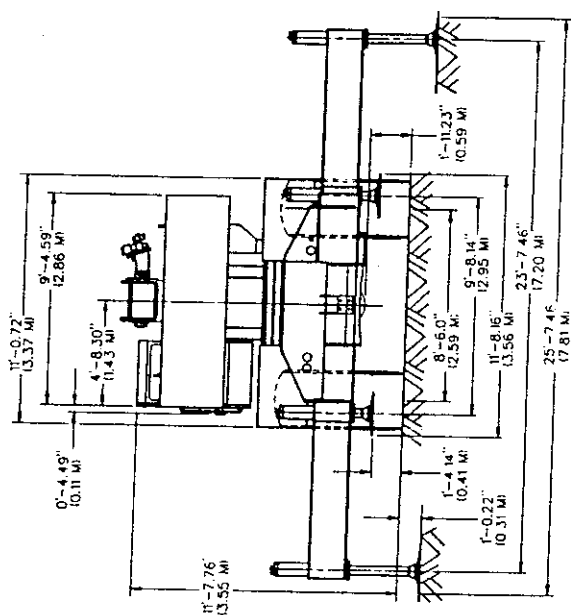
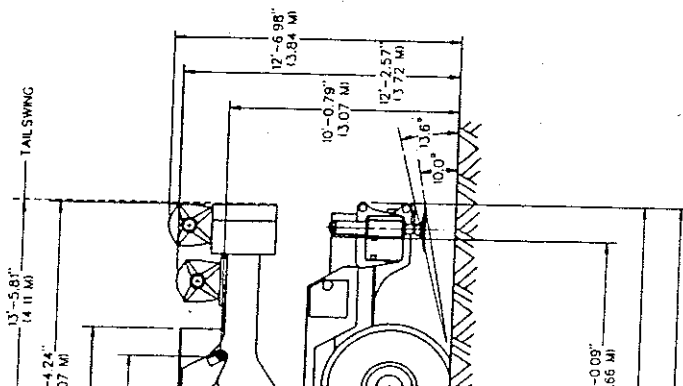
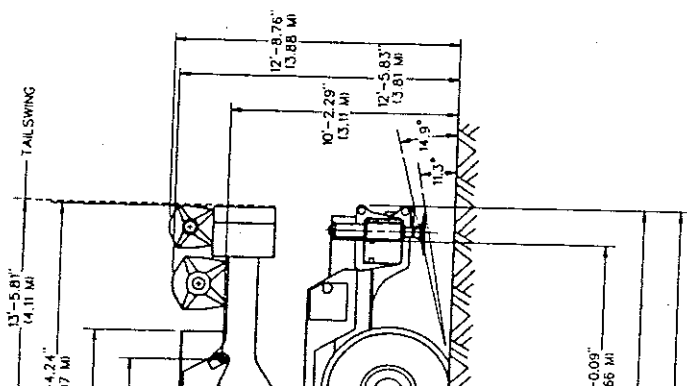
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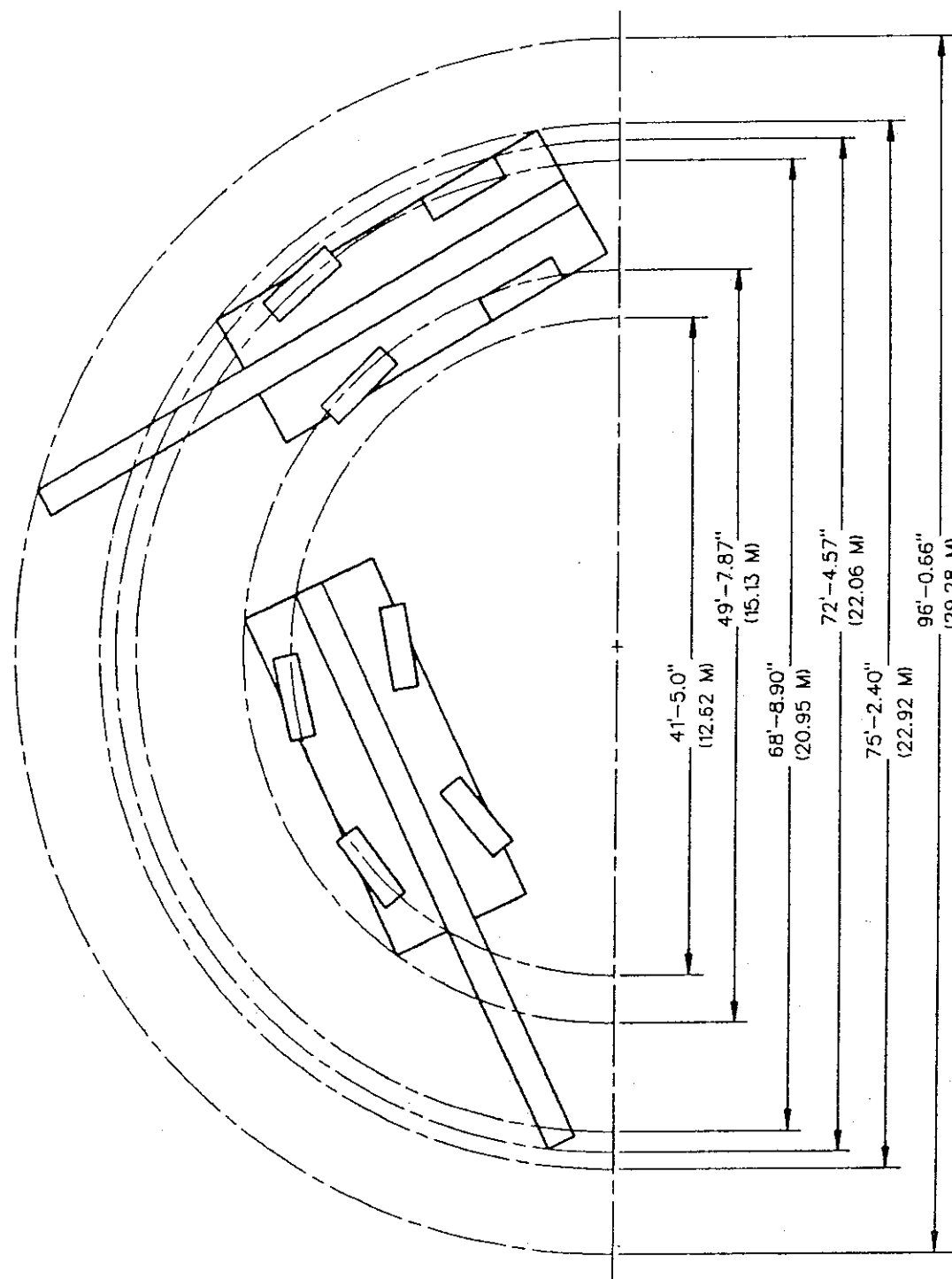
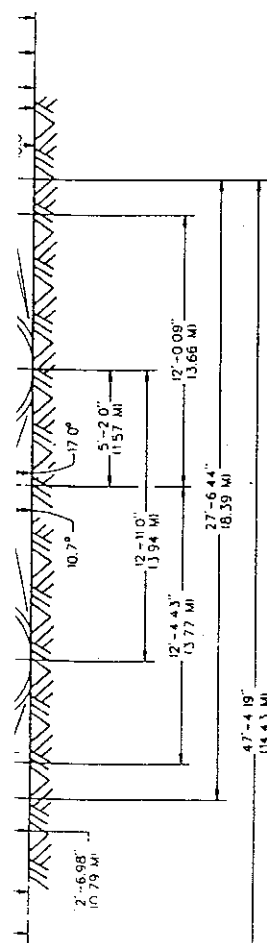
4 Section Boom



3 Section Boom







VEHICLE TURNING DIAMETER	- 4 WHEEL STEER CRAMP	41'-5.0" (12.62 M)
VEHICLE CLEARANCE DIAMETER	- FRONT AXLE STEER	68'-8.90" (20.95 M)
BOOM CLEARANCE DIAMETER	- 4 WHEEL STEER CRAMP	49'-7.87" (15.13 M)
	- FRONT AXLE STEER	75'-2.40" (22.92 M)
	- 4 WHEEL STEER CRAMP	72'-4.57" (22.06 M)