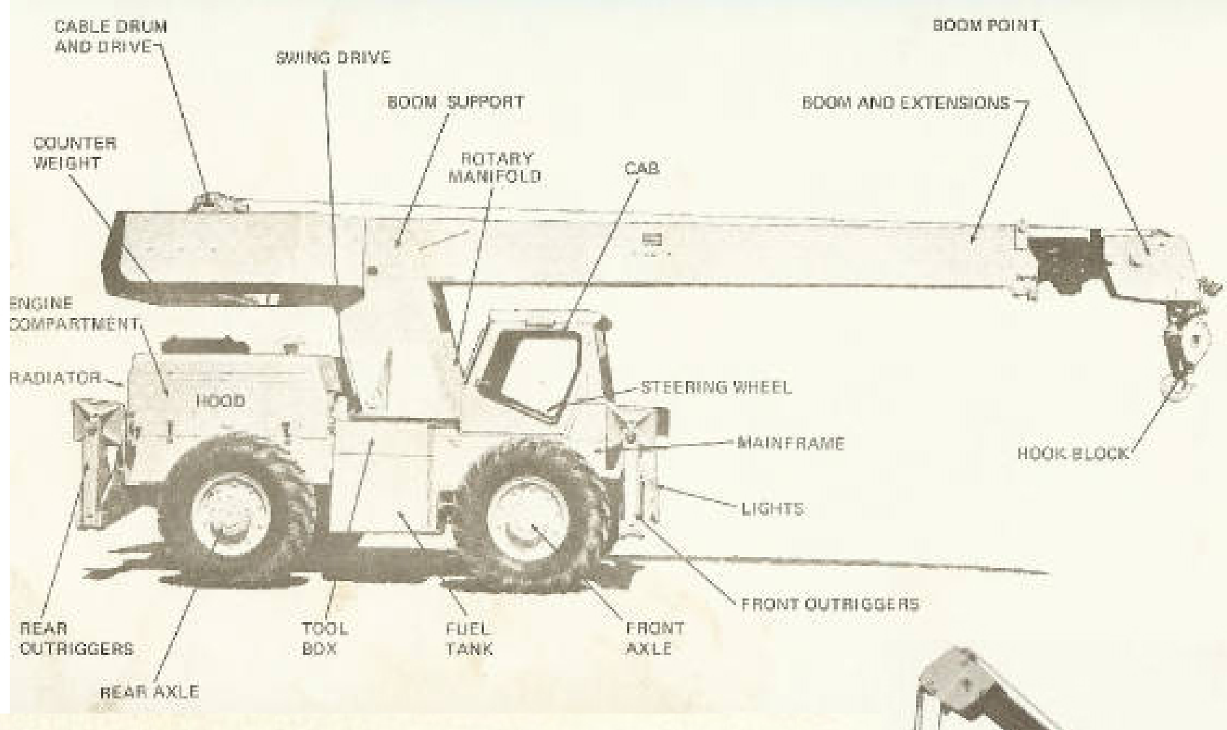

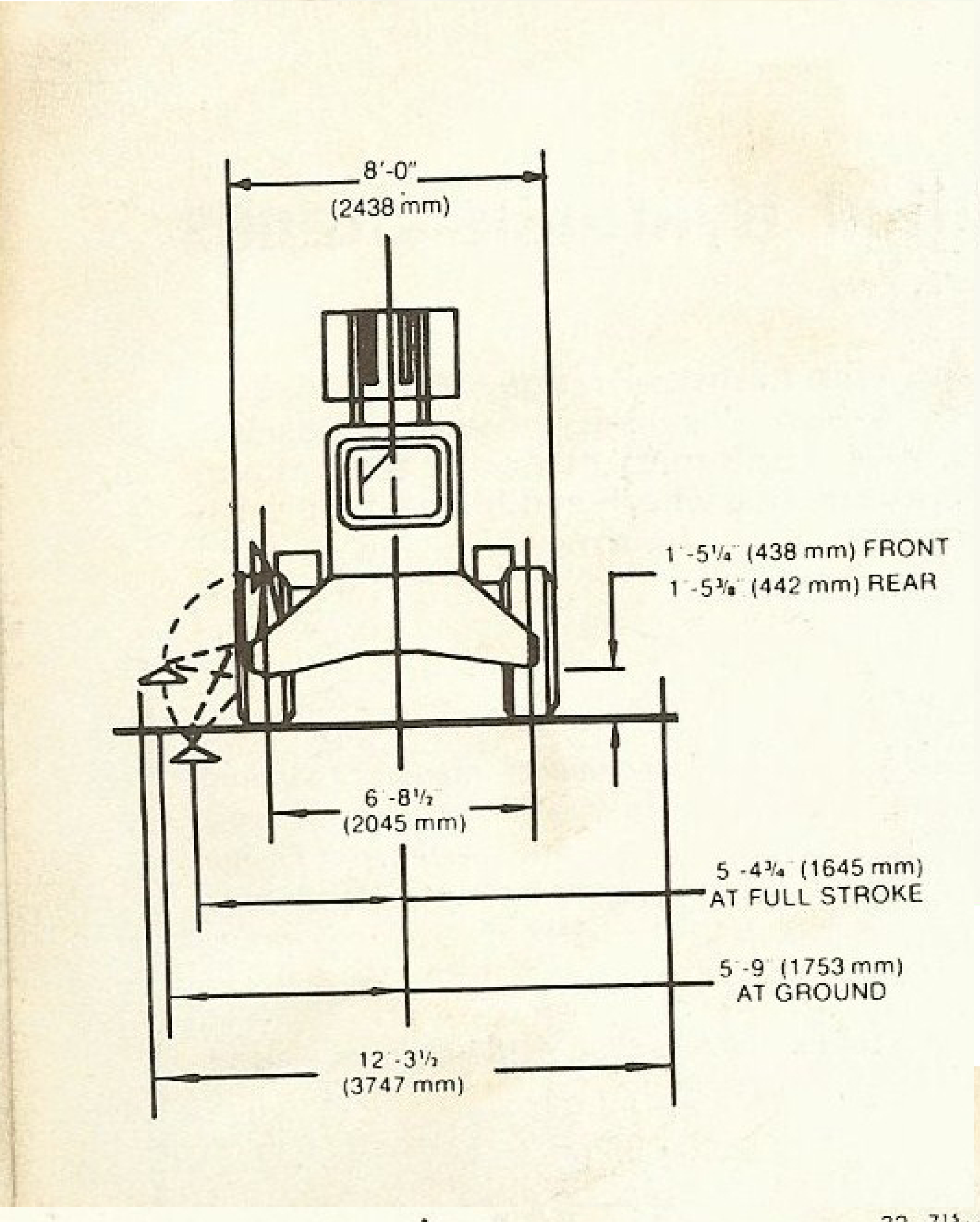

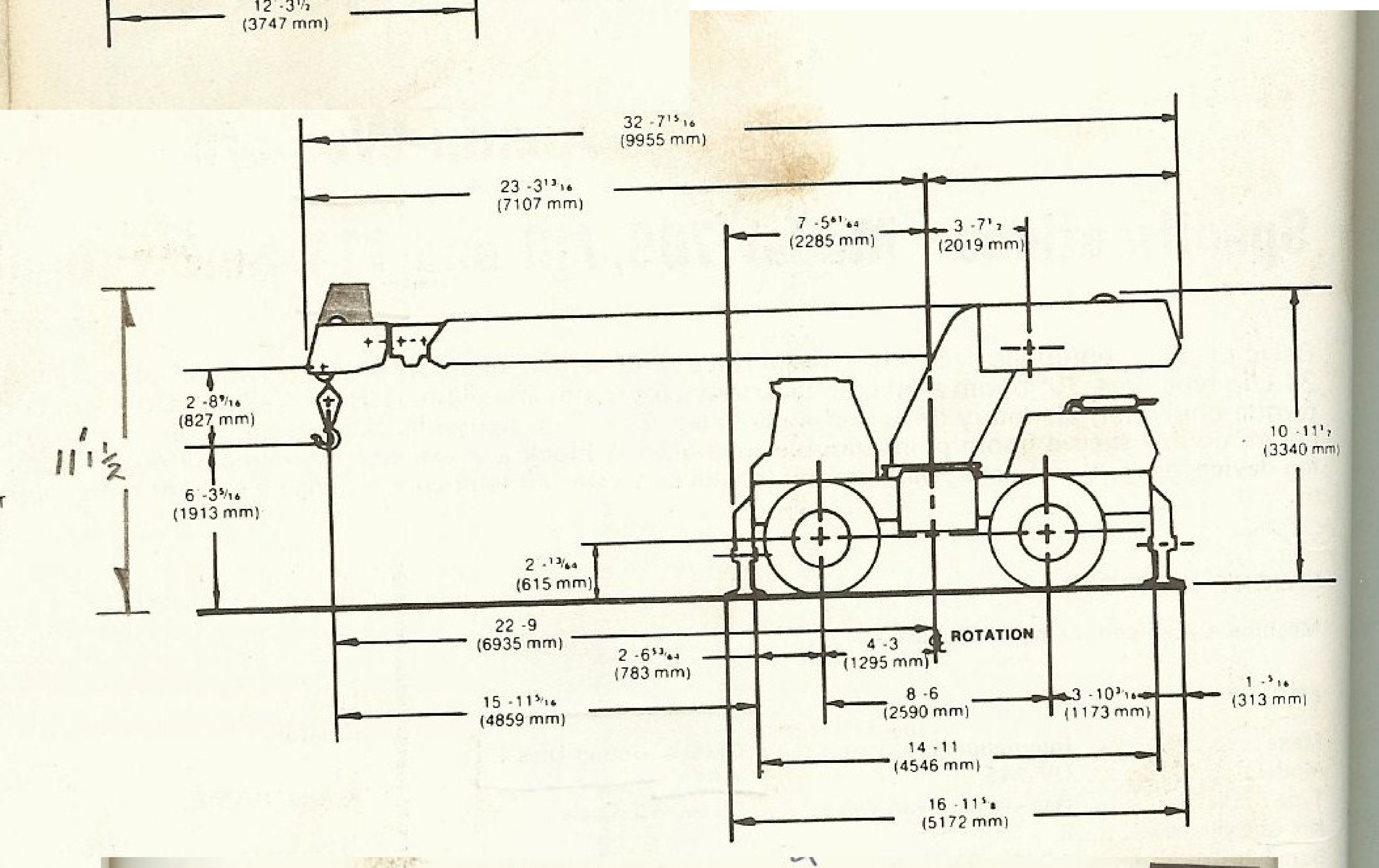

AUSTIN-WESTERN DIVISION

CLARK EQUIPMENT

Austin-Western

Specifications – Model 709, 710 and 714 Self-Propelled Hydraulic Cranes

Basic machine equipped with four-wheel drive, four-wheel steer, six speed powershift transmission with high-low range, 16 ply 14:00 x 24 Lug type tires, 70° boom angle, holding valve for boom lift cylinder, IHC UV-345 gasoline or GMC 4-53N diesel engine with hoodsides, torque converter, planetary drive and steer axles, 2 tandem hydraulic pumps, 26.4' (8047 mm) to 60' (18288 mm) hydraulic telescoping boom, double sheave boom point, double sheave hook block and weights, hydraulic outriggers, tilt away steering wheel, audible back-up warning device, gauges: voltmeter, oil pressure, torque converter oil temperature, engine coolant temperature, fuel gauge, hourmeter.

WEIGHT (APPROX.)

Machine w/cab and 60' power boom.......38,860 lbs.

ENGINES

Make	International Harvester	GMC — Detroit Diesel
Model	UV-345	4-53N
Type	Gas — Overhead Valve	Diesel — 2 Cycle
No. of Cylinders	8	4
Bore and Stroke	3.875 x 3.656	3.88 x 4.5
Horsepower	145 @ 2800 RPM	136 @ 2800 RPM
Displacement	344.9 Cu. In.	212 Cu. In.
Maximum Torque	283 Lbs./Ft. @ 2100 RPM	282 Lbs./Ft. @ 1800 RPM
Electrical System	12 Volt, 30 Amp Alt.	12 Volt, 30 Amp Alt.
Air Cleaner	Dry, Replaceable Element	Dry, Replaceable Element
Fan Type	Blower	Blower
Fan Diameter & No. Blades	20" — 5 Blades	20" — 6 Blades

TORQUE CONVERTER

Engine	IHC	GM
Make	Clark	Clark
Model	C272.1-2	C272-87
Diameter	12.1" (307.3mm)	12" (304.8mm)
Stall Torque Ratio	2.910	2.910

TRANSMISSION

Type.......Full power shift with high-low manual range selector
Make.......Clark
Model.......R-28620-12
No. of Speeds (Forward and Reverse).......6
(3 speed power shift with manual high-low range selector)
Drive.......4 wheel with rear axle disconnect

AXLE — FRONT

Make.......Clark
Model.......FDS 21000
Type.......Planetary
Steering Range.......25°
Oscillation.......None

AXLE — REAR

Make.......Clark
Model.......RDS 21000
Type.......Planetary
Steering Range.......25°
Oscillation with Lockouts.......1" (25.4mm) @ Centerline Tire
Oscillation without Lockouts.......10" (254mm) @ Centerline Tire

STEERING

Front.......Char-Lynn Orbitrol — Tilt away steering wheel
Rear.......Hydraulic — Lever Control

BRAKE — SERVICE

Type.......Hydraulic Internal Expanding
Size.......17" x 4" (432mm x 102mm)
Location.......4 Wheels
Control.......Foot actuated Hydraulic
Master Cylinder.......Dual
Type.......Booster

BRAKE — PARKING

Type.......Mechanical Internal Expanding
Size.......13⅜" x 2" (340mm x 51mm)
Location.......Axle Input Flange
Control.......Hand Lever

MAINFRAME

Type.......18" (457mm) Rectangular box section reinforced and welded

OUTRIGGERS

Type.......Hydraulic with holding valves
Quantity.......4
Location.......At extreme outer corners of chassis

HYDRAULIC SYSTEM

No. of Pumps.......4
Make.......Commercial
Total Flow @ 2400 rpm.......107.5 GPM (363 liters per minute)
Reservoir capacity.......50 gal. (189 liters) (approx.)

HYDRAULIC DISTRIBUTION

37 GPM (140 liters/min.) Crowd — Hoist Boost — Boom Lift
37 GPM (140 liters/min.) Hoist — Crowd Boost — Rear Steer
19 GPM (64 liters/min.) Swing — Outriggers
14.5 GPM (55 liters/min.) Front steer — Brakes

CRANE PERFORMANCE

Boom Topping Speed (0° to 70°).......15 Sec.
Swing Speed.......3 rpm
Crowd Speed
Extending.......65 f.p.m. (19.8 m/min.)
Retracting.......80 f.p.m. (24.4 m/min.)
Available Single — Part Line Pull.......10,000 lbs. (4536 kg.)
Permissible Single — Part Line Pull.......7,600 lbs. (3447 kg.)
Max. Single — Part Line Speed (no load).......281 f.p.m. (85.6 m/min.)

CABLE AND DRUM

Size and Length of Cable.......½" Dia. x 380' (12.7mm x 9652mm)
Type of cable.......#6 x 25 regular lay extra improved plow steel
Hoist Type.......Planetary with automatic brake
Drum Capacity.......490 ft. of ½" Dia. Cable (12446mm of 12.7mm Dia. Cable)

SWING MECHANISM

Type Drive.......Worm gear and pinion, 360° continuous
Type Bearing.......Ball type
Brake.......Band type — Automatic spring release

ATTACHMENTS

Heater.......Hot Water
Defroster.......Electric Fan
Lights.......Head, Tail, Stop, Directional and Flood
Alternator.......60 Amp.

- Back up warning Device (Visual)
- Boom angle indicator
- Enclosed Cab with wipers and dome light
- 15 ft. (4572mm) jib
- Various manual and hydraulic booms
- Pintle Hook
- Rear Steer Indicator
- Safety Latch Kit
- Free Drop
- Auxiliary Cable Hoist
- Anti-two blocking
- 17.5 x 25 — 20 Ply rating tubeless sure grip tires

AUSTIN-WESTERN DIVISION

CLARK EQUIPMENT

MODEL 714

MAXIMUM ALLOWABLE LIFTING CAPACITIES WITH 60 FT. POWER BOOM

ON OUTRIGGERS – 360° ROTATION

WORKING RADIUS IN FEET	BOOM LENGTH IN FEET: 26.4		30.0		40.0		50.0		59.8	
	BOOM ANGLE°	LBS.	BOOM ANGLE°	LBS.	BOOM ANGLE°	LBS.	BOOM ANGLE°	LBS.	BOOM ANGLE°	LBS.
10	61	28,000	65	22,250						
12	56	23,000	60	19,300	68	17,400				
15	47	16,500	54	15,250	64	14,750	69	13,750		
20	29	11,750	40	11,500	55	11,500	63	10,900	68	10,250
25			18	9,350	46	9,200	57	8,600	65	8,250
30					34	6,500	49	6,250	57	6,000
35					16	4,750	41	4,750	51	4,500
40							31	3,750	44	3,400
45							14	22,750	37	2,600
50									28	2,000
55									12	1,500
56									6	1,250

ON OUTRIGGERS – OVER FRONT

WORKING RADIUS IN FEET	26.4 BOOM ANGLE°	LBS.	30.0 BOOM ANGLE°	LBS.	40.0 BOOM ANGLE°	LBS.	50.0 BOOM ANGLE°	LBS.	59.8 BOOM ANGLE°	LBS.
10	61	28,000	65	24,000						
12	56	25,000	60	19,500	68	17,400				
15	47	20,000	54	16,000	64	15,500	69	15,000		
20	29	14,500	40	13,000	55	12,500	63	12,250	68	12,000
25			18	11,100	46	10,000	57	9,500	65	9,000
30					34	8,810	49	7,500	57	6,750
35					16	7,000	41	6,250	51	5,750
40							31	5,760	44	4,600
45							14	4,680	37	4,000
50									28	3,820
55									12	3,000
56									6	2,940

ON RUBBER – 360° ROTATION

WORKING RADIUS IN FEET	26.4 BOOM ANGLE°	LBS.	30.0 BOOM ANGLE°	LBS.	40.0 BOOM ANGLE°	LBS.	50.0 BOOM ANGLE°	LBS.	59.8 BOOM ANGLE°	LBS.
10	61	18,700	65	17,000						
12	56	14,875	60	14,875						
15	47	10,450	54	10,450	64	10,450				
20	29	6,170	40	6,170	55	6,170	63	6,170		
25			18	4,250	46	4,250	57	4,250	65	3,910
30					34	3,020	49	3,020	57	2,630
35					16	2,170	41	2,125	51	1,700
40							31	1,315	44	1,075

ON RUBBER – OVER FRONT

WORKING RADIUS IN FEET	26.4 BOOM ANGLE°	LBS.	30.0 BOOM ANGLE°	LBS.	40.0 BOOM ANGLE°	LBS.	50.0 BOOM ANGLE°	LBS.	59.8 BOOM ANGLE°	LBS.
10	61	24,000	65	22,000						
12	56	20,000	60	19,000						
15	47	15,100	54	15,100	64	14,000				
20	29	9,600	40	9,950	55	9,950	63	9,800		
25			18	6,600	46	6,600	57	6,600	65	6,600
30					34	5,270	49	4,930	57	4,850
35					16	4,000	41	3,660	51	3,400
40							31	2,760	44	2,340
45							14	2,080	37	1,700
50									28	1,275

NOTES

1. Load capacities above bold lines are based upon structural strength when on outriggers and upon maximum allowable static tire load capacities when on tires. All other capacities are not more than 85% of tipping loads with machine levelled on a firm supporting surface.
2. Load capacities are the maximum capacities covered by the manufacturer's warranty for the machine as originally manufactured and equipped. They are based on freely suspended loads with no allowances for unknown conditions such as wind, supporting surface, hazardous surroundings, tire inflations, operating speeds, operator experience, etc. The operator must use caution at all times and reduce load ratings to compensate for such conditions.
3. Load capacities do not include the weight of the hook block and/or other load handling devices and their weights must be deducted from chart capacities to obtain payload capacities.
4. Boom angles listed are with no load applied to the hook. When working at maximum allowable lifting capacities, boom angle must be adjusted to maintain rated radius.
5. Maximum load capacities on tires are dependent upon the condition and inflation of tires. All "on tires" lifting must be done with rear axle lockouts engaged. Loads may be transported on tires at slow speeds on smooth, level surfaces only, with boom in the "over front" position, and with swing lock engaged.
6. "Working radius" is the horizontal distance in feet from the center of rotation before load is applied to the centerline of the hook block and/or load handling device with the load applied.
7. Loads may be telescoped in or out without damage to boom or machine as long as limits of load capacity chart are not exceeded. However, telescoping capabilities with a load may be limited by boom angle, boom lubrication, hydraulic pressure, etc.
8. Hook block and/or load handling devices must be kept as least 12" from boom point when telescoping or lowering boom.
9. When the wire rope hoist is equipped with free drop option, the load which can be handled under "controlled free fall" conditions must not exceed 3500 lbs. or 90% of maximum allowable lift capacity, whichever is less.
10. The least stable rated working area is over the side when on tires or outriggers.
11. Rear axle lockouts must be down at all times when swinging or lifting. They are to be raised only when transporting over rough ground and with the boom in the "off front" position.
12. Do not operate this machine at boom lengths and boom radii where no capacity is listed on chart.