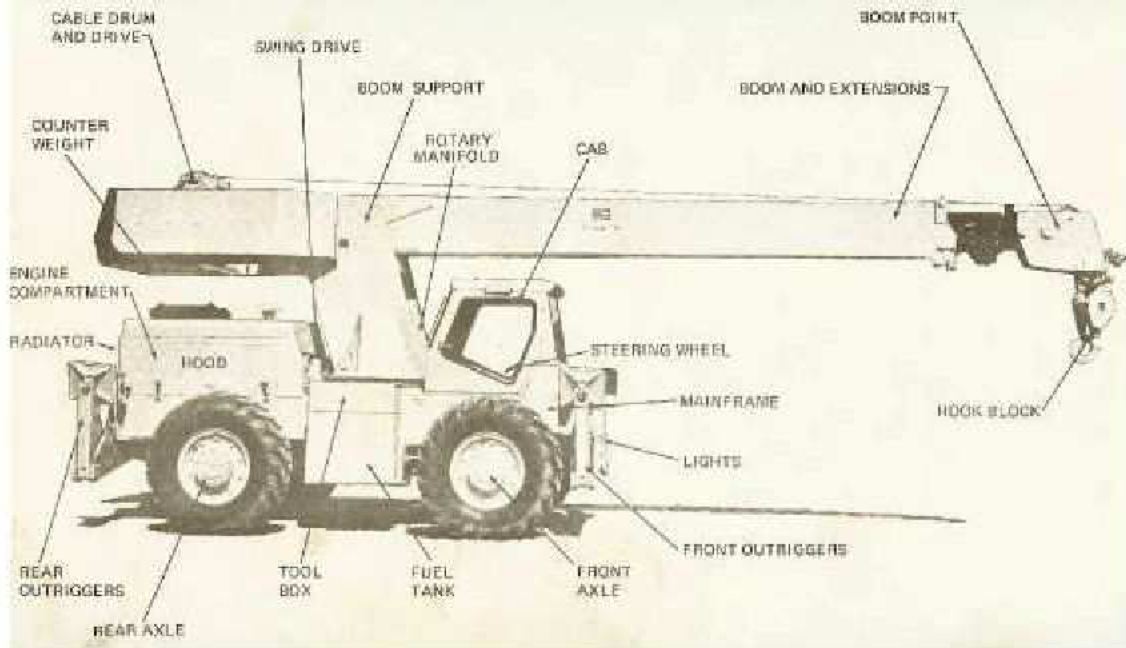




MODEL  
714MAXIMUM ALLOWABLE LIFTING CAPACITIES WITH 60 FT. POWER BOOM  
ON OUTRIGGERS – 360° ROTATION

| WORKING<br>RADIUS<br>IN<br>FEET | BOOM LENGTH IN FEET |        |                |        |                |        |                |        |                |        |
|---------------------------------|---------------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|
|                                 | 26.4                |        | 30.0           |        | 40.0           |        | 50.0           |        | 59.8           |        |
|                                 | BOOM<br>ANGLE°      | LBS.   | BOOM<br>ANGLE° | LBS.   | BOOM<br>ANGLE° | LBS.   | BOOM<br>ANGLE° | LBS.   | BOOM<br>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  |

## NOTES

- 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.
- 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.
- 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.
- 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.
- 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.
- "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.
- 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.
- Hook block and/or load handling devices must be kept at least 12" from boom point when telescoping or lowering boom.
- 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.
- The least stable rated working area is over the side when on tires or outriggers.
- 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.
- Do not operate this machine at boom lengths and boom radii where no capacity is listed on chart.

## ON OUTRIGGERS – OVER FRONT

|    |    |        |    |        |    |        |    |        |    |        |
|----|----|--------|----|--------|----|--------|----|--------|----|--------|
| 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

|    |    |        |    |        |    |        |    |       |    |       |
|----|----|--------|----|--------|----|--------|----|-------|----|-------|
| 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

|    |    |        |    |        |    |        |    |       |    |       |
|----|----|--------|----|--------|----|--------|----|-------|----|-------|
| 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 |

## 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" — 5 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.....     | 13 1/2" 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..... | 3/8" 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 3/8" Dia. Cable<br>(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)         | Rear Steer Indicator                               |
| Boom angle indicator                    | Safety Latch Kit                                   |
| Enclosed Cab with wipers and dome light | Free Drop                                          |
| 15 ft. (4572mm) jib                     | Auxiliary Cable Hoist                              |
| Various manual and hydraulic booms      | Anti-two blocking                                  |
| Pintle Hook                             | 17.5 x 25 — 20 Ply rating tubeless sure grip tires |

