

LIFTMOORE 72100 CRANE

72,000 FT.-LB. MOMENT RATING
10,000 LB. MAXIMUM CAPACITY

Liftmoore's 72100 crane is the largest capacity crane we have produced to date.

Moment rating of the crane is 72,000 ft.-lbs. with a maximum lifting capacity of 10,000 lbs. at a 7.2 ft. load radius.

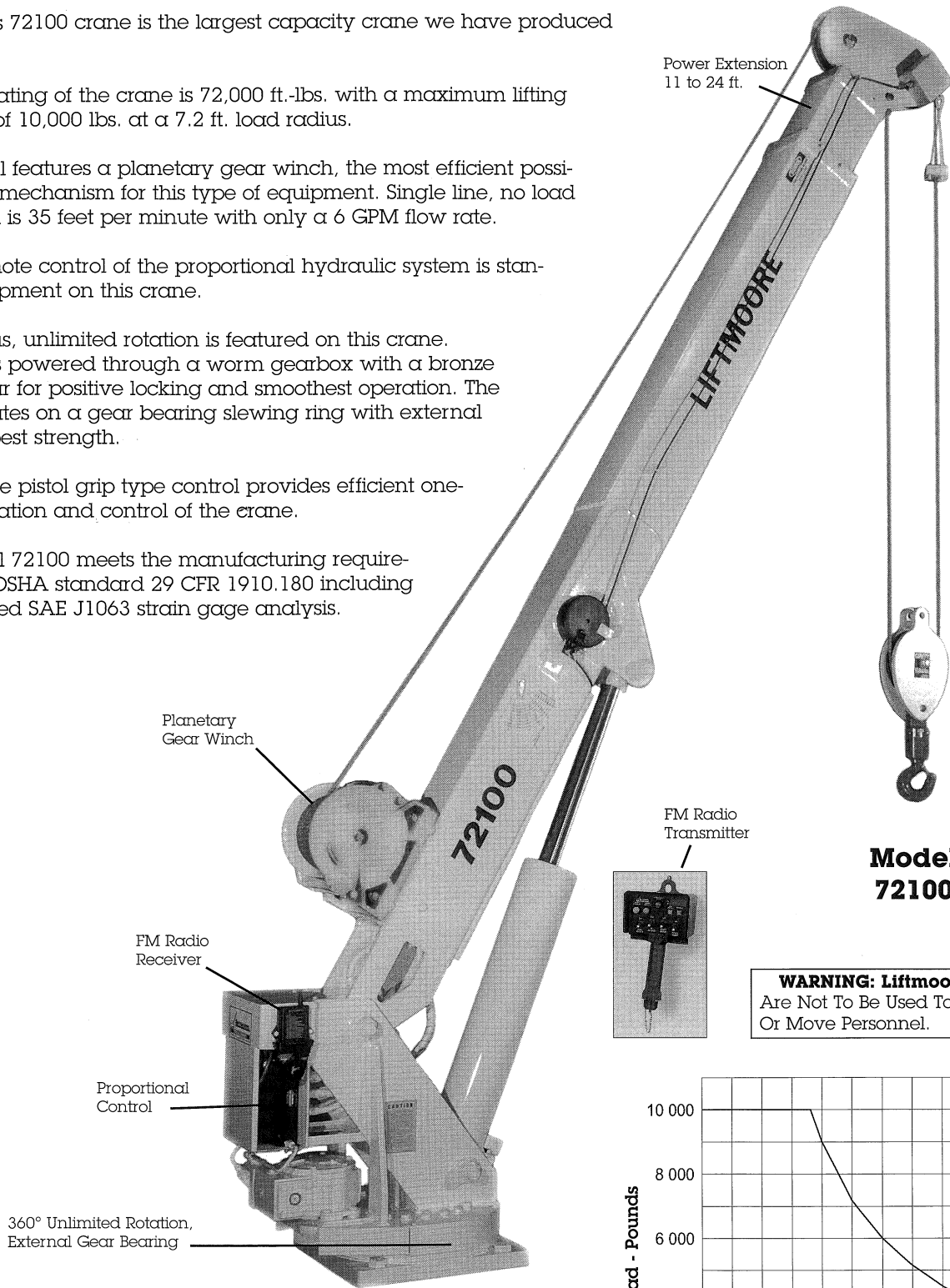
This model features a planetary gear winch, the most efficient possible lifting mechanism for this type of equipment. Single line, no load line speed is 35 feet per minute with only a 6 GPM flow rate.

Radio remote control of the proportional hydraulic system is standard equipment on this crane.

Continuous, unlimited rotation is featured on this crane. Rotation is powered through a worm gearbox with a bronze worm gear for positive locking and smoothest operation. The crane rotates on a gear bearing slewing ring with external teeth for best strength.

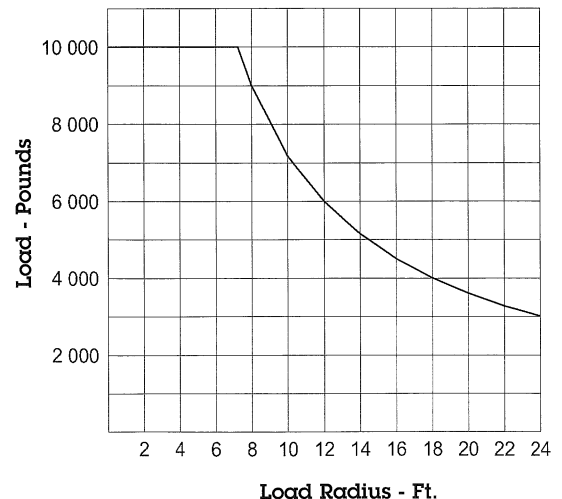
The remote pistol grip type control provides efficient one-man operation and control of the crane.

The model 72100 meets the manufacturing requirements of OSHA standard 29 CFR 1910.180 including the required SAE J1063 strain gage analysis.



Model 72100

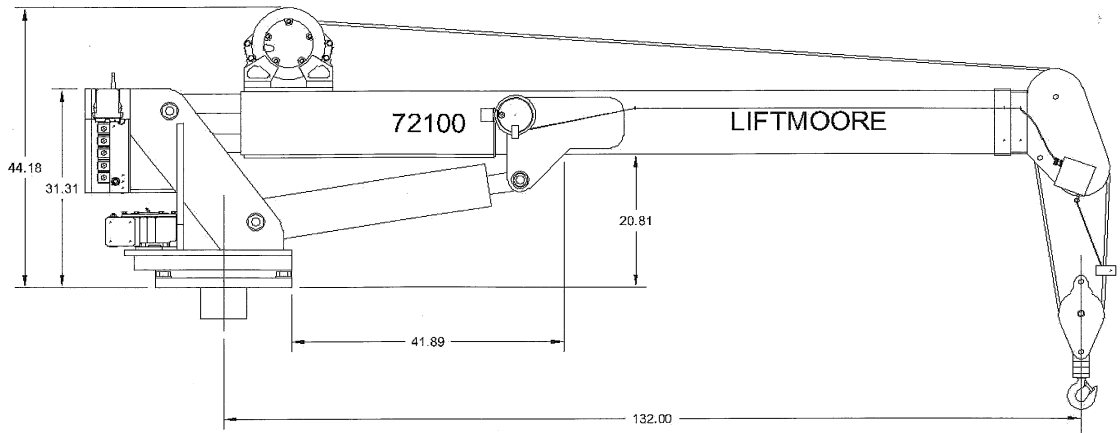
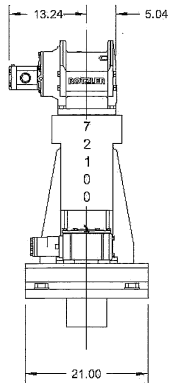
WARNING: Liftmoore Cranes
 Are Not To Be Used To Lift, Support
 Or Move Personnel.



LIFTMOORE
TRUCK CRANES
 Up to 10,000 lb. Capacity Cranes

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72100 SPECIFICATIONS



Moment Rating:

72,000 Ft.-Lbs.

Lift Capacities:

10,000 Lbs. @ 7.2 Ft.*

7200 Lbs. @ 10 Ft.*

6000 Lbs. @ 12 Ft.*

5142 Lbs. @ 14 Ft.*

4000 Lbs. @ 18 Ft.

3000 Lbs. @ 24 Ft.

* Use of the traveling block double line hookup is required for loads above 5000 Lbs.

Boom:

Standard length is 11 to 24 Ft. with power extension over the entire telescoping length. The boom angle varies from -5 to +75 degrees. Both the elevation and extension cylinders include an integrally mounted counterbalance valve for positive load holding. The boom extends on Nylatron slide pads for minimum friction. The extension cylinder will raise the full rated load of the crane.

Other boom lengths are available.

Hoist Winch:

A planetary gear drive hoist winch is included. This is the most efficient method of powering the winch. Single line no load speed of the winch is 35 feet per minute with a 6 GPM flow rate. Winch drum to wire line ratio meets ANSI B30.5 requirements. The hoist brake is released during hoist up to reduce the pressure requirement.

Wire Line and Block:

100 Ft. of 7/16 In. Galvanized Aircraft Cable is supplied with the 72100. Cable breaking strength is 17,600 Lbs. meeting ANSI requirements for this model. A traveling block for single or double line operation is included. The 5 ton hook includes an easy turning roller thrust bearing swivel hook. Grease zerks are included on all bearings.

Rotation:

A ball bearing slewing ring is used for crane rotation. The ring has an external gear for greatest possible strength. The rotation gearbox is powered by a low speed, high torque hydraulic motor. This motor drives a 13,000 In.-Lb. rated bronze worm gear reducer providing the smoothest and safest rotation mechanism. For long life, roller bearings are used on all gearbox shafts. Hydraulic and electric swivels are included so that the crane rotates continuously without a limiting stop.

Radio Remote Control:

FM radio remote control is standard equipment on the 72100. This digital control includes the proportional controller for hydraulic flow and it monitors the load sensor and anti two-block systems. The controller includes a system to reduce boom "bounce" during boom down operation. No mechanical relays are used with this control system. A battery charger is included.

Hydraulic System:

Proportional hydraulic control is standard on the 72100. The system provides variable speed control of all crane functions with the remote control. For smooth operation and minimum heat buildup a pressure compensated flow control system is used. A parallel control circuit is used so that more than one function will operate simultaneously until maximum pressure is reached.

Power Source:

This crane requires both hydraulic and 12 VDC electric power. Hydraulic flow and pressure requirements are 6 GPM and 2750 PSI.

An on-off switch, fuse and battery wire are supplied for standard truck installation.

Engine Controls (Optional):

Engine speed, start and stop control can be included with the remote pendant control. With the radio control system a separate receiver is used. The crane will still rotate continuously and without limit with this system. The truck must be equipped for remote operation.

Load Sensor:

A load sensor is standard on the 72100. The load sensor will not allow hoist up, boom down or extension out when an overload is detected.

Anti Two-Block:

The 72100 is supplied with an anti two-block device that prevents extending the boom against the traveling block. The anti two-block stops boom out, boom down and hoist winch up when activated.

Mounting:

Four 1-1/4 In. Grade 8 bolts are required. Bolts are not included. The crane mounts on a 21 In. square base plate with a 15.5 x 18.5 In. bolt pattern.

Boom Rest:

A boom rest is required to support the boom while the vehicle is being moved.

Weight:

72100 XP-11-24 Crane Only:: 2625 Lbs.

Optional Accessories:

Outrigger - Hydraulic In-Out/Hydraulic Down-Up with control valve.

10 Gallon Reservoir with filter, return line diffuser suction line strainer and couplings.

Pedestal

Boom Rest



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