Liftmoore’s 72100 is the largest capacity crane we produce. 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.

360 degrees unlimited rotation is standard on the 72100. Rotation is powered through a 45:1 ratio 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.

Wireless FM Radio Proportional control is standard complete with a “tethered Can Wire “.

Two Basic Models to choose from

- **72100XP-24** Full Power extension from 11 Ft to 24 Ft
- **72100XP-30** Full Power extension from 15 Ft to 30 Ft

The 72100 meets the manufacturing requirements of OSHA standard 29CFR 1910.180 including the required strain gage analysis.
**72100 SPECIFICATIONS**

**MOMENT RATING:**
72,000 Ft.-Lbs.

**HOIST WINCH:**
A planetary gear drive hoist 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.

<table>
<thead>
<tr>
<th>Load</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000 Lbs.</td>
<td>@ 7.2 ft. **</td>
</tr>
<tr>
<td>7,200 Lbs.</td>
<td>@ 10 ft. **</td>
</tr>
<tr>
<td>6,000 Lbs.</td>
<td>@ 12 ft. **</td>
</tr>
<tr>
<td>5,142 Lbs.</td>
<td>@ 14 ft. **</td>
</tr>
<tr>
<td>4,000 Lbs.</td>
<td>@ 18 ft.</td>
</tr>
<tr>
<td>3,000 Lbs.</td>
<td>@ 24 ft.</td>
</tr>
</tbody>
</table>

**WIRE ROPE and SHEAVES:**
The crane is supplied with 100 Ft. of 7/16 In. galvanized aircraft cable. Minimum breaking strength of the rope is 17,600 lbs. The wire rope is outside of the boom and visible for operator’s continual inspection. A 5-ton travel block for easy two-part hookup is included. The hook includes an easy turning roller thrust bearing. All sheaves meet ANSI requirements.

**BOOM:**
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.

**72100XP-24:** Power extension from 11 ft. to 24 ft. with a two stage Hydraulic cylinder.

**72100XP-30:** Power extension from 15 ft. to 30 ft. with a two stage Hydraulic cylinder.

**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, which drives the 13,000 In-Lb rated bronze worm gear box providing a smooth, safe rotation mechanism. The gearbox uses roller bearings on all shafts for the longest possible trouble free life. The crane rotates continuously and with out restriction.

**RADIO REMOTE CONTROL:**
FM radio remote control is standard equipment on the 72100. This digital control includes the proportional controller for hydraulic flow control and monitors the load sensor and anti two-block systems. 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 series control circuit is used so that more than one function will operate simultaneously until maximum pressure is reached.

**POWER SOURCE:**
The crane requires both Hydraulic and 12 VDC electric power. Hydraulic flow and pressure requirements are 8 GPM and 2750 PSI. An on-off switch, fuse and 25 ft of 10 gauge wire are supplied for standard truck installation.

**ENGINE CONTROLS (OPTIONAL):**
Engine start, stop and speed control can be included with the remote control. A separate receiver is used in conjunction with the FM controls so that unrestricted rotation is maintained. Truck must be equipped for remote operation.

**LOAD SENSOR**
A load-limiting sensor is installed in the elevation cylinder. This sensor will shut down hoist up, boom out & boom down when an overload is detected. The sensor will rest after the load is lowered.

**ANTI TWO-BLOCK:**
The anti two-block is standard on this crane & prevents extending the boom against the travel block with possible breakage of the cable.

**MOUNTING:**
A minimum 30,000 Lb. GVWR recommended. Four 1-1/4" Grade 8 bolts are required. Bolts are not furnished. The crane mounts on a 21" square base plate with a 15.5 in. X 18.5 in. bolt pattern.

**ACCESSORIES:**
An outrigger is needed for stability requirements of OSHA 1910.180. A boom rest is also required. Liftmoore offers both as options.