SUGGESTED SPECIFICATIONS
LIFTMOORE MODEL 72100XP CRANE

RADIO REMOTE CONTROL

CAPACITY: Moment rating of 72,000 ft.-lbs. with capacities as follows:

10,000 lbs. at 7.2 ft.*
9,000 lbs. at 8 ft.*
7,200 lbs. at 10 ft.*
6,000 lbs. at 12 ft.*
4,500 lbs. at 16 ft.
4,000 lbs. at 18 ft.
3,600 lbs. at 20 ft.

*Use of the traveling block double line is required for loads above 5,000 Lbs.

HOIST WINCH: The hoist winch is a planetary gear design with a 5,500-lb. single line, bare drum capacity. Ratio between winch drum and wire rope meets ANSI requirements. A gear type hydraulic motor powers the winch. No load line speed is 32 FPM at 8 GPM. A spring applied, pressure released brake system is used for holding and lowering loads. In order to reduce the pressure requirement during hoisting a one way clutch releases the brake.

WIRE ROPE: The crane is supplied with 100 ft. of 7/16" galvanized aircraft cable. Breaking strength of the wire rope is 17,600 Lbs. meeting ANSI requirements. The wire rope is outside of the boom and visible for the operator's continual inspection.

SHEAVES: All sheaves are non-metallic material for improved life of both the sheave and the wire rope. Sheave bushings can be greased through grease zerks in the sheave's shaft. All sheaves meet ANSI requirements.

HYDRAULIC SYSTEM: All crane functions are hydraulically powered by an externally (engine) driven hydraulic pump. PTO, pump, reservoir and hoses are not supplied with the crane. Flow and pressure requirements are 8 GPM and 2750 PSI. A proportional hydraulic valve in the manifold controls the crane's speed. All directional control valves are incorporated in a single manifold. The proportional and directional valves are spool type valves. A pressure compensated flow control system is used. With this system, excess flow is dumped at the pressure required by the operating function. Heat build up in the oil is kept to a minimum with this system.

CONTROL: An FM radio remote pendant control is supplied as standard equipment. This control provides directional control of the crane as well as a trigger for proportional speed control. The transmitter includes a rechargeable battery system. A wire cable control is supplied that can be used as a remote pendant control. The transmitter can be recharged through this cable. A charger for in cab battery charging is included. Engine controls can be incorporated into the pendant.

LIFTMOORE
TRUCK CRANES

HOUSTON, TEXAS
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ROTATION SYSTEM: Rotation is 360 degree continuous and unlimited on a ball slewing ring type bearing with an external gear driven by worm gearbox. The worm gearbox is driven by a low speed, high torque hydraulic motor. A bronze worm gear is used for best, smoothest operation.

BOOM ELEVATION: The boom is capable of moving from –5 to +75 degrees. A 6.00" bore double acting cylinder elevates it. The cylinder has an integral counterbalance valve. The counterbalance valve has three safety purposes. It will hold the cylinder in the event of hose failure, it controls the rate of boom descent and it functions as a relief valve. The cylinder rod is chrome plated and seals in the cylinder are of U-Cup design for best possible load holding capability.

BOOM EXTENSION:

72100XP-21: The boom extends under power from 11' to 17' by a 3.00" diameter cylinder. The cylinder has an integral counterbalance valve. The counterbalance valve has three safety purposes as explained under "Boom Elevation". Cylinder rod is chrome plated and seals are of U-Cup design for best possible holding capability. A four-foot manually extendable section increases the maximum reach to 21 feet.

72100XP-24: The boom on this crane extends under hydraulic power from 11 to 24 feet. A two stage hydraulic cylinder with integral counterbalance valves extends the boom throughout the 13-foot extension.

LOAD SENSOR: A load sensor is included as standard equipment. The sensor is set up to limit overloads when using hoist up, boom extend out and boom down. Boom up is limited by the system's hydraulic pressure setting. When an overload is detected the load can be lowered to reset the overload sensor.

ANTI-TWO BLOCK: The 72100XP includes an anti two-block feature that prevents extending the boom against the traveling block and breaking the wire rope.

MOUNTING: Four 1 1/4" grade 8 hex head cap screws are required for mounting. Hole pattern is 15.5" x 18.5". Base plate is 21.00" square. Mounting screws are not included.

BOOM REST: A boom rest is required to support the crane's boom while the vehicle is in motion. The boom rest can be purchased as an option from Liftmoore, Inc.

OUTRIGGER: An optional outrigger is available from Liftmoore, Inc. Outriggers are necessary to keep the truck as level as possible protecting the crane's rotation mechanism and the truck's suspension.

CHASSIS: Minimum recommended chassis for the 72100XP crane is 30,000 Lbs. GVWR

WEIGHT: 72100XP-24 2625 Lbs.

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