

**SUGGESTED SPECIFICATIONS  
LIFTMOORE MODEL 2525XP-17 CRANE**

**CAPACITY:** 25,000 ft.-lb. Moment Rating with capacities as follows:

2500 lb. at 5 ft.  
2500 lb. at 10 ft.  
1785 lb. at 14 ft.  
1428 lb. at 17 ft.

**HOIST WINCH:** The hoist winch is a worm gear design with a 5,000 lb. capacity. The winch has a 38:1 worm gear ratio and a safety brake with a one way clutch that releases on hoist up. Ratio between winch drum and wire rope meets ANSI requirements. The winch is powered by a low speed, high torque hydraulic motor. Line speed with no load is 20 FPM.

**WIRE ROPE:** The crane is supplied with 80 ft. of 5/16" galvanized aircraft cable. Minimum breaking strength of the rope is 9800 lbs. Wire rope is outside of the boom and visible of operator's continual inspection. A three-ton capacity BLK 13-8 swivel hook is included.

**SHEAVES:** All sheaves can be greased through grease zerks either in the sheave or it's shaft to insure long life. All sheaves meet ANSI requirements.

**HYDRAULIC SYSTEM:** All crane functions are hydraulically powered by an engine driven hydraulic pump. PTO, pump, reservoir and hoses are not supplied with the crane. Flow and pressure requirements are 6 GPM and 2500 PSI. All control valves are incorporated in a single manifold. The pressure compensated flow control system dumps excess flow at the same pressure required by the operating function. Proportional hydraulic control is standard on this crane.

**ROTATION SYSTEM:** Rotation is 360 degree continuous and unlimited on a gear bearing slewing ring with an internal gear driven by a worm gearbox. The worm gearbox ratio is 45:1 and it is driven by a low speed, high torque hydraulic motor.

**BOOMELEVATION:** The boom is capable of moving from -5 to +75 degrees. It is elevated by a 4.00" bore double acting cylinder. The cylinder has an integral counterbalance valve with relief set at 2500 PSI. The counterbalance valve has two vital purposes. It will hold the cylinder in the event of hose failure and it controls the rate of boom descent. The cylinder rod is chrome plated and seals in the cylinder are of U-Cup design for best possible load holding capability.

**BOOM EXTENSION:** The boom extends under power from 8.3' to 17.49' using a 2-1/2" diameter base mounted cylinder. The cylinder has a counterbalance valve mounted on the base end with integral relief valve set at 2500 PSI. Cylinder rod is chrome plated and seals are of U-Cup design for best possible holding capability. The boom is power extended and retracted through its entire extendible length.

**LOAD SENSOR:** A load sensor is included as standard equipment. The sensor is set up to limit the lifting functions when an overload is detected. When an overload is detected the load can be lowered to reset the overload sensor.

**ANTI-TWO BLOCK:** The 2525XP includes an anti two-block feature that prevents extending the boom against the traveling block and breaking the wire rope.

**CONTROL:** A remote pendant is provided for controlling the speed and direction of each powered function. The speed of each function is controlled by a proportional trigger assembly in the pendant. The pendant is 25 ft. long and is removable from the crane. The pendant connects to the crane by a one-third turn quick connector.

**MOUNTING:** Four 7/8" grade 8 hex head cap screws are required for mounting. Hole pattern is 14.75" square. Base plate is 16.75" square. Mounting screws are not included.

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

**OUTRIGGERS:** An outrigger is required to keep the truck bed as level as possible. Keeping the truck level reduces the torque on the rotation gearbox. Liftmoore has both manual and hydraulic outriggers available.

**CHASSIS:** Minimum chassis weight for mounting the 2525XP is 10,500 GVWR.



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