

## **SUGGESTED SPECIFICATIONS LIFTMOORE MODEL 2550X And 2550XP CRANES**

**CAPACITY:** Moment rating of 25,000 Ft.-Lbs. with capacities as follows:

*5000 Lbs. at 5 Ft.	1562 Lbs. at 16 Ft.
*3125 Lbs. at 8 Ft.	1388 Lbs. at 18 Ft.
2500 Lbs. at 10 Ft.	1250 Lbs. at 20 Ft.
2083 Lbs. at 12 Ft.	

\* Use traveling block double line for loads above 3000 Lbs.

**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 the winch drum and wire rope meets ANSI requirements. The winch is powered by a low speed, high torque hydraulic motor. Line speed (single line) with no load is 20 FPM.

**WIRE ROPE AND SHEAVES:** The crane is supplied with 80 Ft. of 5/16 In. galvanized aircraft cable. The minimum breaking strength of the rope is 9800 Lbs. The wire rope is outside of the boom and visible of operator's continual inspection. A 3 ton capacity thrust bearing swivel traveling block for easy two part hookup is included. 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 2750 PSI. All control valves are incorporated in a single manifold. The pressure compensated flow control system dumps excess flow at the same pressure require by the operating function.

Proportional hydraulic controls are used on the model 2550XP. This control system gives the operator of the crane variable speed control of each function. All functions are controlled through the wireless control system.

**ROTATION SYSTEM:** Rotation is continuous and unlimited rotation on a gear bearing with an internal gear driven by worm gearbox. The worm gearbox ratio is 45:1 and it is driven by a low speed, high torque hydraulic motor. The rotation will be restricted on models with auxiliary controls.

**BOOM ELEVATION:** The boom is capable of moving from -5 degrees to +75 degrees. It is elevated by a 4.00 In. 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.



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## **BOOM EXTENSION:**

**2550X-20:** The boom extends under power from 10 Ft. to 16 Ft. by a 2-1/2 In. diameter cylinder and manually from 16 Ft. to 20 Ft. with one intermediate position. The cylinder has a counter balance valve mounted on the base end with integral relief valve set at 2500 PSI. The cylinder rod is chrome plated and seals are of U-Cup design for best possible holding capability.

**2550XP 12-20:** The boom extends under power from 12 Ft. to 20 Ft. by a 2-1/2 In. diameter cylinder. The cylinder has a counter balance valve mounted on the base end with integral relief valve set at 2500 PSI. The cylinder rod is chrome plated and seals are of U-Cup design for best possible holding capability.

**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 2550 series crane includes an anti-two block feature that prevents extending the boom against the traveling block and breaking the wire rope.

## **CONTROLS:**

**X** Cranes with on /off hydraulic systems are supplied with a 25 Ft. remote pendant control. For safest possible use, the pendant control is removable from the crane and each function is controlled by a momentary contact toggle switch. (**optional** wireless controls available)

**XP** Cranes with proportional hydraulic systems are supplied with Kar-Tech Guider wireless controls, which allows the operator freedom of movement without the constraints of a wired control system.

**MOUNTING:** Four 7/8 In. grade 8 hex head cap screws are required for mounting. The bolt pattern is 14.75 In. square and the base plate is 16.75 In. square. Mounting screws are not included.

**ACCESSORIES:** An outrigger is necessary to keep the truck as level as possible as well as reducing the load on the crane's rotation mechanism and the truck's suspension components. Jackstands are also available for stability of the truck. A boom rest is required to support the crane while the vehicle is in motion. Liftmoore can supply all of these options.

**CHASSIS:** Minimum recommended Vehicle GVWR for mounting the 2550 is 14,500 Lbs.



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