

SUGGESTED SPECIFICATIONS LIFTMOORE MODEL 3055DXP CRANE

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

*5500 Lbs. at 5.5 Ft.	1875 Lbs. at 16 Ft.
*3750 Lbs. at 8 Ft.	1666 Lbs. at 18 Ft.
3000 Lbs. at 10 Ft.	1500 Lbs. at 20 Ft.
2500 Lbs. at 12 Ft.	

* Use traveling block double line for loads above 2,500 Lbs.

HOIST WINCH: The hoist winch has a two stage planetary gear drive for best possible efficiency. The winch is powered by a low speed, high torque hydraulic motor. The single line capacity of the winch is 3000 Lbs. The winch load is controlled by a dynamic braking system on the motor and by a load applied mechanical brake located in the winch drum. Ratio between winch drum and wire rope meets ANSI B30.5 requirements. Single line no load speed of the winch is 40 ft. per min at 8 GPM.

WIRE ROPE AND SHEAVES: The crane is supplied with 95 Ft. of 3/8 In. galvanized aircraft cable. The minimum breaking strength of the rope is 14,400 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 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. 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. This reduces heat build up in the hydraulic oil.

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.

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: The boom extends under power from 10 Ft. to 20 Ft., Two hydraulic cylinders with counter balance valve extends the boom throughout its 10-foot extension. The cylinder's counter balance valve is 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 3055 series crane includes an anti-two block feature that prevents extending the boom against the traveling block and breaking the wire rope.

CONTROLS: Wireless proportional controls are standard. Allowing for precise handling of the load as the operator has control of the function's speed through a trigger switch mounted in the wireless transmitter. Supplied with C.A.N. tethering cable.

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 for stability requirements of OSHA 1910.180. The Outrigger keeps the truck as level as possible as well as reduces 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 is 17,500 Lbs.**



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