

SUGGESTED SPECIFICATIONS MODEL LA10K CRANE

CAPACITY: Moment rating of 10,000 Ft.-Lbs. with capacities as follows:

*2,000 Lbs. at 3 Ft.	1,176 Lbs. at 8.5 Ft.
*1,818 Lbs. at 5.5 Ft.	909 Lbs. at 11.5 Ft.

*Use traveling block double line, for loads above **1000** Lbs.

HOIST WINCH: The hoist winch uses a planetary gear drive for most efficient operation. The winch is powered by a permanent magnet electric motor. The single line capacity of the winch is 1200 Lbs. An integral mechanical brake is included with the winch. Winch Performance is as follows:

Load (Lbs.)	Hook Speed (Ft./Min.)	Amp Draw
0	26	25
500	22	70
1000	18	115

WIRE ROPE AND SHEAVES: The crane is supplied with 50 Ft. of 3/16 In. galvanized aircraft cable with a 4200 Lb. breaking strength. All sheaves meet ANSI requirements. A traveling block is supplied for two part wire line use

HYDRAULIC SYSTEM: A 12 Volt electric-hydraulic pump powers the boom elevation, boom extension and crane rotation functions. Four way open center directional control valves are used to control all functions. A gear type pump with 1.2 GPM capacity at 500 PSI is used. Hydraulic functions are controlled through four way spring centered, solenoid activated valves. Valves actuate at a minimum of 10 volts, have manual over-ride capabilities and are mounted on a manifold for easy access. The reservoir capacity is .75 gallon. The relief valve on the pump is set for 1800 PSI.

ROTATION: Unlimited hydraulic powered rotation. The crane rotates on an external gear ball bearing slewing ring. A low speed, high torque hydraulic motor drives the rotation through a 56:1 ratio self-locking worm gear.

BOOM ELEVATION: The boom is capable of moving from a vertical down storage position to +75 degrees above horizontal. It is elevated by a 3.50 In. bore double acting cylinder. The cylinder has an integral counterbalance valve with relief set at **2000** PSI. The counterbalance valve has two vital purposes. This valve will hold the cylinder in the event of hose failure and it controls the rate of boom descent.



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BOOM EXTENSION:

Boom extends under power from 5.5 Ft. to 8.5 Ft. by a 2.0 In. bore hydraulic cylinder, A 4 Ft. manual extension is supplied for a total reach of 11.5 Ft. The cylinder is mounted inside the boom for protection. The cylinder has a counterbalance valve integrally mounted with relief set at **2000** PSI. The counterbalance valve will hold the cylinder in the event of hose failure and also controls the rate of cylinder retraction.

ANTI TWO-BLOCK: Prevents extending the boom against the traveling block and damaging or possibly breaking the wire rope.

LOAD SENSOR: A load limiting sensor is installed in the elevation cylinder. This sensor will shut down hoist up, extension out and boom down when an overload is detected. The sensor will reset after the load is reduced.

PENDANT CONTROL: An 18 Ft. remote pendant control is supplied with each crane. The pendant control is removable from the crane to prevent unauthorized use. Each function is controlled by a weather resistant momentary contact toggle switch.

BATTERY CABLE: The crane is supplied with 25 Ft. of battery power cable with quick disconnects, an additional 3 Ft. ground wire, a 150 Amp circuit breaker for mounting near the battery and a master cutoff switch to be mounted near the crane.

BATTERY: It is advised that a Group 31 deep cycle battery be installed under the crane to eliminate the line loss from the engine compartment.

MOUNTING: Four 0.5 In. x 2.5 In. long Grade 8 Hex Head Cap Screws are supplied for mounting. The bolt pattern is 9.5 In. square on a 12 In. square base plate.

ACCESSORIES: An outrigger or jackstand 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. Liftmoore can supply all of these options.

CHASSIS : Minimum recommended vehicle GVWR for mounting the LA10K is 10,000 Lbs.

