

## SUGGESTED SPECIFICATIONS MODEL 3612X 9-15 CRANE

**CAPACITY:** Moment rating of 12,000 Ft.-Lbs. with capacities as follows:

*3600 Lbs. at 3 Ft.	1090 Lbs. at 11 Ft.
1714 Lbs. at 7 Ft.	800 Lbs. at 15 Ft.
1333 Lbs. at 9 Ft.	

\*Use traveling block double line, for loads above 2000 Lbs.

**HOIST WINCH:** The hoist winch has a planetary gear drive for best possible efficiency. A 2.7 HP permanent magnet electric motor powers the winch. The single line capacity of the winch is 2000 Lbs. The winch load is controlled by the dynamic braking of the motor and by a load apportioned mechanical brake located in the winch drum. Ratio between the winch drum and wire rope meets ANSI requirements. The winch is reversed by 12 volt contactor, not individual solenoids. Winch performance is as follows:

Load(Lbs.)	Hook Speed(Ft./Min.)	Amp Draw
1000	13.1	64
2000	11.9	115

Note: Use double line for loads over 2000 Pounds

**WIRE ROPE AND SHEAVES:** The crane is supplied with 62 Ft. of ¼ In. Galvanized aircraft cable. Minimum breaking strength of the rope is 7000 Lbs. The wire rope is outside of the boom and visible for operator's continual inspection. A traveling block for easy two-part hookup is included. All sheaves meet ANSI requirements.

**HYDRAULIC SYSTEM:** The hydraulic pump is driven by a 12 volt DC Series Wound electric motor. A gear type pump with 1.2 GPM capacity at 500 PSI. 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 1 gallon. The relief valve on the pump is set for 1800 PSI.

**ROTATION SYSTEM:** The hydraulic powered rotation is driven by a low speed, high torque hydraulic motor and drives through a 36:1 ratio self locking worm gear. The worm gear is an aluminum bronze alloy. The worm is hardened steel. The crane rotates 360 degree continuously without limit on two 3.75 In. ID tapered roller bearings.

**BOOM ELEVATION:** The boom is capable of moving from -5 degree to +75 degree. It is elevated by a 3.00 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. It 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 9 Ft. to 15 Ft. by a 2.5 In. bore hydraulic cylinder. 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.

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

**ANTI-TWO BLOCK:** An anti-two block system is included on the 3612X series crane. The anti two-block prevents extending the boom against the traveling block and breaking the cable.

**PENDANT CONTROL:** An 18 Ft. remote pendant control is supplied with each crane. For safest possible use, the pendant control is removable from the crane and each function is controlled by a momentary contact toggle switch. An E-Stop is included that turns off all power to the crane as required by OSHA.

**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.

**MOUNTING:** Four 0.5 In. x 2.5 In. long Grade 8 Hex Head Cap Screws are supplied for mounting. The bolt pattern is 12 In. square on a 15 In. square base plate.

**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. A boom rest is required to support the crane whenever the truck is in motion. Liftmoore can supply all of these options.

**CRANE WEIGHT:**



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