



## SUGGESTED SPECIFICATIONS LIFTMOORE MODEL 6036WX 12 VOLT DC CRANE

**CAPACITY:** 36,000 ft.-lbs. moment rating with capacities as follows:

|                      |                     |
|----------------------|---------------------|
| *6000 Lbs. at 6 Ft.  | 2250 Lbs. at 16 Ft. |
| *4500 Lbs. at 8 Ft.  | 2000 Lbs. at 18 Ft. |
| *3600 Lbs. at 10 Ft. | 1800 Lbs. at 20 Ft. |
| *3000 Lbs. at 12 Ft. |                     |

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

**HOIST WINCH:** The hoist winch is a planetary gear design for best efficiency. The safety brake includes a one way clutch that releases the brake when lifting the load. The winch drum to wire rope ratio meets ANSI requirements. The winch is powered by a 12 Volt DC series wound electric motor. The hoist winch is mounted on the boom. Winch single line speeds and amp draws are as follows:

|      | Loads(Lbs.) | Hook Speed(Ft./Min.) | AMP Draw |
|------|-------------|----------------------|----------|
| 0    | 28          | 95                   |          |
| 1000 | 17          | 165                  |          |
| 2000 | 13          | 215                  |          |

**WIRE ROPE AND SHEAVES:** The model 6036WX-16 or -20 crane is supplied with 90 Ft. of 5/16 In. 6 x 36 IWRC Extra Improved Plow Steel rope. The minimum breaking strength of the cable is 10,540 Lbs. and meets ANSI requirements. The wire rope is outside of the boom and clearly visible for the operator's inspection. A 3 ton capacity swivel traveling block assembly with roller thrust bearing and safety latch is included for two part line operation. Single part line can be used up to 3000 Lbs.

**HYDRAULIC SYSTEM:** The hydraulic pump is driven by a 12 volt DC series wound electric motor. Hydraulic functions are controlled through four-way spring centered solenoid activated valves. The valves actuate at a minimum of 10 volts, have manual override capabilities and are mounted on a manifold for easy access. The reservoir capacity is 1 gallon.

**ROTATION:** Unlimited rotation is standard on the 6036WX crane. The crane rotates on a gear bearing that is powered by a 45:1 ratio worm gear box with integral low speed, high torque hydraulic motor.

**BOOM ELEVATION:** A 4.5 In. bore hydraulic cylinder elevates the boom from -5 degree to +75 degree. A counterbalance valve is mounted integral with the cylinder. This valve has three vital purposes. It will hold the load in the event of a hose failure, control the rate of descent when powered down, and relieve the cylinder from high induced pressures.



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**BOOM EXTENSION:** The boom is extended hydraulically from 10 Ft. to 16 Ft. and manually from 16 Ft. to 20 Ft. The 3.0 In. bore hydraulic extension cylinder is mounted inside the boom for protection. For safety, a counterbalance valve is mounted in the cylinder. The power extendable portion of the boom slides on nylatron slide pads for minimum friction.

**PENDANT CONTROL:** A 25 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 switch as required by OSHA is included with the pendant control. The E-Stop turns off all power to the crane's functions.( Optional wireless controls available)

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

**ANTI-TWO BLOCK:** The 6036WX includes an anti-two block feature that prevents extending the boom against the traveling block and breaking the cable.

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

**BATTERIES:** This crane requires an additional 12-Volt battery separate from the vehicle's battery and mounted near the crane. A Group 4D "Deep Cycle" battery is suggested. This battery has a 215 Amp-Hour Rating

**MOUNTING:** Four 7/8 In. grade 8 bolts are required. The base plate is 16.75 In. square and the bolt holes are drilled on a 14.75 In. square pattern. Bolts are not supplied.

**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 chassis for mounting the 6036WX is 17,500 Lbs. GVW



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