

SUGGESTED SPECIFICATIONS LIFTMOORE MODEL 5000WX CRANE

CAPACITY: 25,000 Ft.-Lbs. moment rating 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 2500 Lbs.

HOIST WINCH: The hoist winch uses a planetary gear drive for most efficient operation. 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. A 2.5 HP, 12 Volt DC series wound electric motor powers the winch. The winch performance is as follows:

Load(Lbs.)	Hook Speed(Ft./Min.)	Amp Draw
0 Lbs.	28	95
1000 Lbs.	17	165
2000 Lbs.	13	215

WIRE ROPE AND SHEAVES: The crane is supplied with 80 Ft. of 5/16 In. galvanized aircraft Cable, breaking strength of 9,600 Lbs. The wire rope is outside of the boom and clearly visible for 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. All sheaves meet ANSI requirements.

HYDRAULIC SYSTEM: The hydraulic pump is driven by a 12 volt DC electric motor driving gear type pump. Control of the hydraulic functions is through four way spring centered solenoid activated valves. Valves actuate at a minimum of 10 volts. Manual override controls are provided on each directional valve.

ROTATION: Rotation is 360 degree continuous and unlimited. A gear bearing supports the crane. Crane rotation is powered by a 45:1 ratio worm gear box with integral low speed, high torque hydraulic motor.

BOOM ELEVATION: A 4 In. bore hydraulic cylinder elevates the boom from -5 degrees to +75 degrees. A counterbalance valve is mounted integral with the cylinder. The valve has two 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 pressures.



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BOOM EXTENSION:

The boom is hydraulically extends from 10 Ft. to 16 Ft. by a 2.5 In. bore hydraulic cylinder and manually extends from 16 Ft. to 20 Ft. on the 5000WX-20. The extension cylinder is mounted inside the boom for protection. A counterbalance valve is mounted in the cylinder for safety. 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 button is included in the control. This switch will turn off electrical power to the crane when pressed.

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 5000W also 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, a 150 Amp circuit breaker for mounting near the battery and a master cut off switch to be mounted near the crane.

BATTERY: This crane requires an additional 12-Volt battery separate from the vehicle's battery. 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 chassis for mounting the 5000W is 11,000 lbs. GVWR.

WEIGHT: 5000WX-16: 1410 Lbs.
5000WX-20: 1480 Lbs.



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