

# LIFTMOORE 4000 CRANE

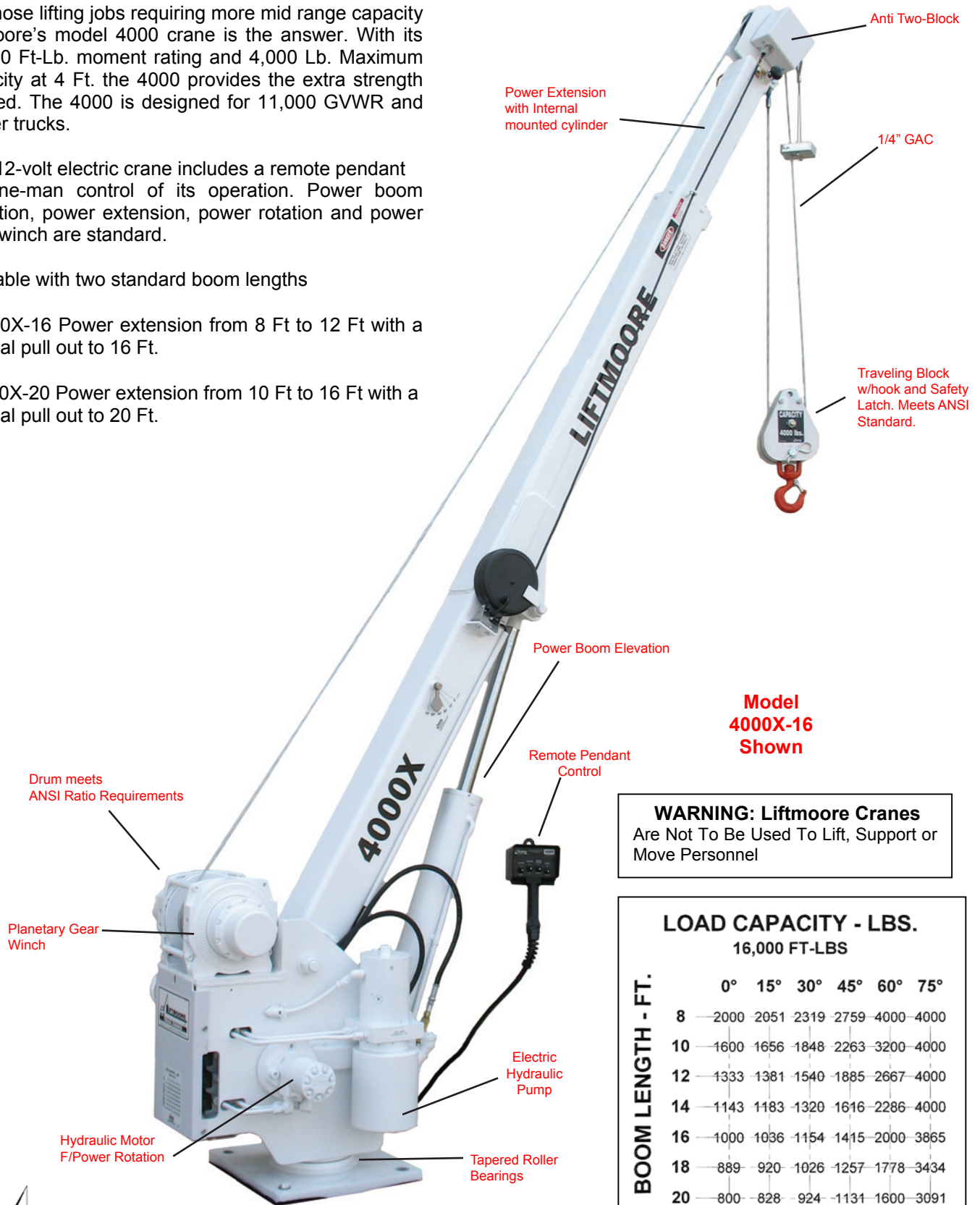
**16,000 FT.-LB. MOMENT RATING  
4,000 LB. MAXIMUM CAPACITY**

For those lifting jobs requiring more mid range capacity Liftmoore's model 4000 crane is the answer. With its 16,000 Ft-Lb. moment rating and 4,000 Lb. Maximum capacity at 4 Ft. the 4000 provides the extra strength needed. The 4000 is designed for 11,000 GVWR and Larger trucks.

This 12-volt electric crane includes a remote pendant for one-man control of its operation. Power boom elevation, power extension, power rotation and power hoist winch are standard.

Available with two standard boom lengths

- 4000X-16 Power extension from 8 Ft to 12 Ft with a manual pull out to 16 Ft.
- 4000X-20 Power extension from 10 Ft to 16 Ft with a manual pull out to 20 Ft.



**Model  
4000X-16  
Shown**

**WARNING: Liftmoore Cranes  
Are Not To Be Used To Lift, Support or  
Move Personnel**

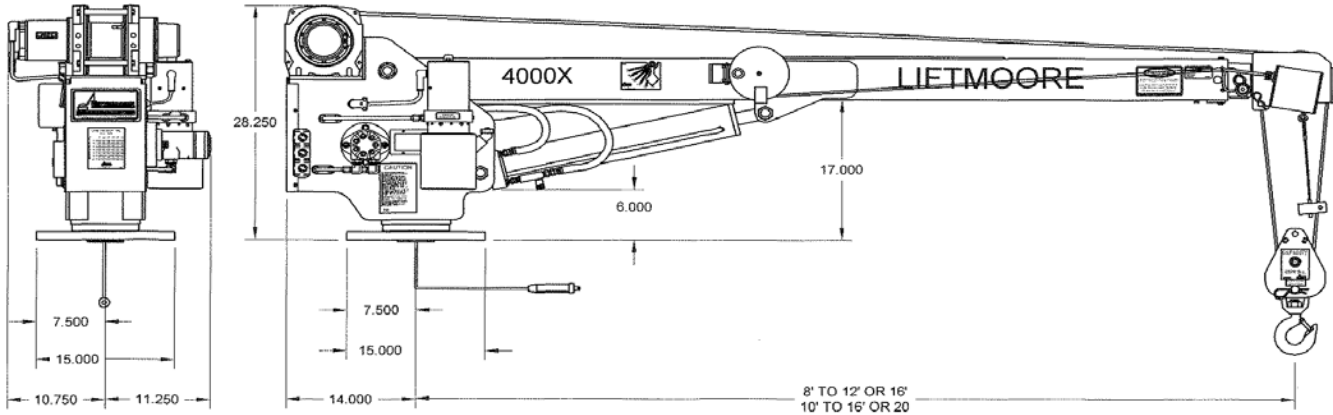
LOAD CAPACITY - LBS.		16,000 FT-LBS					
BOOM LENGTH - FT.	16,000 FT-LBS						
	0°	15°	30°	45°	60°	75°	
8	2000	2051	2319	2759	4000	4000	
10	1600	1656	1848	2263	3200	4000	
12	1333	1381	1540	1885	2667	4000	
14	1143	1183	1320	1616	2286	4000	
16	1000	1036	1154	1415	2000	3865	
18	889	920	1026	1257	1778	3434	
20	800	828	924	1131	1600	3091	



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# 4000 SPECIFICATIONS



## MOMENT RATING:

16,000 Ft.-Lbs.

## HOIST WINCH:

The hoist winch has a planetary gear drive for best possible efficiency. A 1.8 HP permanent magnet electric motor powers the winch. Single line capacity of the winch is 2000 Lbs. Load is controlled by a load apportioned mechanical brake located in the winch drum. Ratio between winch drum and wire rope meets ANSI B30.5 requirements.

First layer performance of the winch is as follows:

Load-Lbs	Hook Speed-Ft/ Min.	Electrical-Amps @ 12VDC
1000	14.5	75
2000	13.7	130
4000 ***	6.0	135

\*\*\* two-part line required for loads above 2000Lbs.

## WIRE ROPE and SHEAVES:

The crane is supplied with 75 Ft. of 1/4 in. galvanized aircraft cable. Minimum breaking strength of the rope is 7000 lbs. The wire rope is outside of the boom and visible for operators continual inspection. A traveling block for easy two-part hookup is included. All sheaves meet ANSI requirements.

## BOOM:

The boom is capable of moving from -5 to +75 Degrees. A double acting cylinder with an integral counterbalance elevates the boom. The counterbalance valve has two important functions. This valve holds the cylinder in the event of hose failure and it controls the rate of boom decent.

There are two standard Booms available on the model 4000X crane

### 4000X-16:

The boom extends under power from 8 Ft. to 12 Ft with a 4-Ft. manual pull out to 16 Ft. with one intermediate position at 14 Ft.

### 4000X-20:

The boom extends under power from 10 Ft. to 16 Ft. with a 4-Ft manual pull out to 20 Ft. with one intermediate position at 18 Ft.

## HYDRAULIC SYSTEM:

A hydraulic pump driven by a 12 volt D.C. series wound electric motor powers the crane's rotation, elevation and extension functions. Pump is a gear type with a 1.3 GPM capacity at 500 PSI. Control of the hydraulic functions is through four way spring centered solenoid activated valves. Valves have manual over-ride capability and are mounted on a manifold for east access.

## ROTATION SYSTEM:

The hydraulic powered rotation is driven by a low speed, high torque hydraulic motor and drives through a 54:1 ratio self locking worm gear. The worm gear is an Aluminum Bronze Alloy. The worm is hardened steel. The crane rotates 360 degrees continuously without limit on two 4" ID Tapered roller bearings.

## REMOTE PENDANT CONTROL:

A 25-Ft. long remote pendant is provided for control of each powered function. The Pendant control is removable from the crane to prevent unauthorized use of the crane.

## LOAD SENSOR

A load-limiting sensor is supplied as standard. This sensor will shut down hoist up, boom out & boom down when an overload is detected. The sensor will reset after the load is lowered.

## ANTI TWO-BLOCK:

Anti two-block is standard on this crane & prevents extending the boom against the travel block and breaking the cable.

## POWER SOURCE:

Crane is powered by the truck's 12-volt DC system. A second battery is required to keep the voltage as high as possible and should be installed in parallel with the vehicle's battery. A Group 31"DEEP CYCLE" battery is recommended. 25 Ft of 1/0 battery cable with quick disconnect is included along with a 3-ft ground wire, 150amp circuit breaker and master cut off switch.

## MOUNTING:

An 11,000-Lb or larger GVWR chassis is recommended. Four 0.75" X3.0" long Grade 8 hex head cap screws and lock nuts are provided. Mounting plate is 15" square with a 12" square bolt pattern.

## OUTRIGGERS:

An optional outrigger is needed for stability requirements of OSHA 1910.180. The Outrigger is necessary to reduce the load on the crane's rotation mechanism and the truck's suspension.



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