SUGGESTED SPECIFICATIONS

MODEL 2700AR CRANE

CAPACITY: Moment rating of 8,100 Ft.-Lb. with capacities as follows:

2700 Lbs. at 3 ft.*	810 Lbs. at 10 ft.
1350 Lbs. at 6 ft.	578 Lbs. at 14 ft.
1012 Lbs. at 8 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 H.P. permanent magnet electric motor powers the winch. 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. First Layer Winch performance is as follows:

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

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. 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: A gear type pump is driven by a 12 volt DC electric motor. The 2700AR utilizes four way spring centered solenoid activated valves to control rotation and boom elevation. The valves include manual over-ride capability and are mounted on the manifold for easy access. The relief valve on the pump is set for 1800 PSI.

ROTATION SYSTEM: 360 degree rotation without restriction is standard. 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 degrees continuously without limit on two 3.75 In. tapered roller bearings.

LIFTMOORE
TRUCK CRANES

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BOOM ELEVATION: The boom is capable of moving from – 5 degrees to + 75 degrees. The boom is elevated by a 2.50 In. bore, double acting cylinder with integral counterbalance valves. The counterbalance valve will hold the load in the event of hose failure, control the lowering speed of the boom and act as a relief valve when overloads are imposed on the boom.

BOOM EXTENSION:

14 Ft. Boom:
The boom telescopes manually from 6 Ft. to 10 Ft. and from 10 Ft. to 14 Ft. in two stages. There is one intermediate position in each stage. The boom length is secured by 0.75 In. diameter hitch pins with wire retainers.

LOAD SENSOR: A load limiting sensor is installed in the elevation cylinder. This sensor will shut down hoist up, and boom down when an overload is detected. The sensor will reset after the load is lowered. Boom up over-load is controlled by the hydraulic pressure setting in the pump.

ANTI –TWO BLOCK: An anti-two block system is included on the 2700AR crane. The anti-two block prevents the travel block from contacting the boom causing possible wire rope damage.

PENDANT CONTROL: An 18 Ft. remote pendant is supplied with each crane. For safest possible use, the pendant control is removable from the crane. 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. (optional Wireless controls avalible)

POWER CABLE: The crane is supplied with 25 Ft. of battery power cable with quick disconnects, an additional 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. It is advised that an additional battery be installed as close as possible to the crane to eliminate electrical line loss.

ACCESSORIES: An outrigger is necessary to keep the truck as level as possible. There are also jackstands and boom rests available.

CHASSIS: Minimum recommended GVWR for the 2700 AR is 9,000 Lbs.

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