

LIFTMOORE 1640 CRANE

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

This telescoping boom service crane features all hydraulic operation with a planetary gear winch. The efficient planetary drive winch produces wire line speeds up to 30 feet per minute with only a 5 GPM input flow. Single line capacity of the winch is 3000 Lbs.

Moment rating of the crane is 16,000 Ft.-Lbs. with a maximum capacity of 4,000 Lbs. at a 4 Ft. load radius. The moment rating allows a capacity of 1600 Lbs. at a 10 Ft. load radius.

The boom length extends from 8 Ft. to 16 Ft. including a 4 Ft. power extension cylinder and a 4 Ft. manual pull out section.

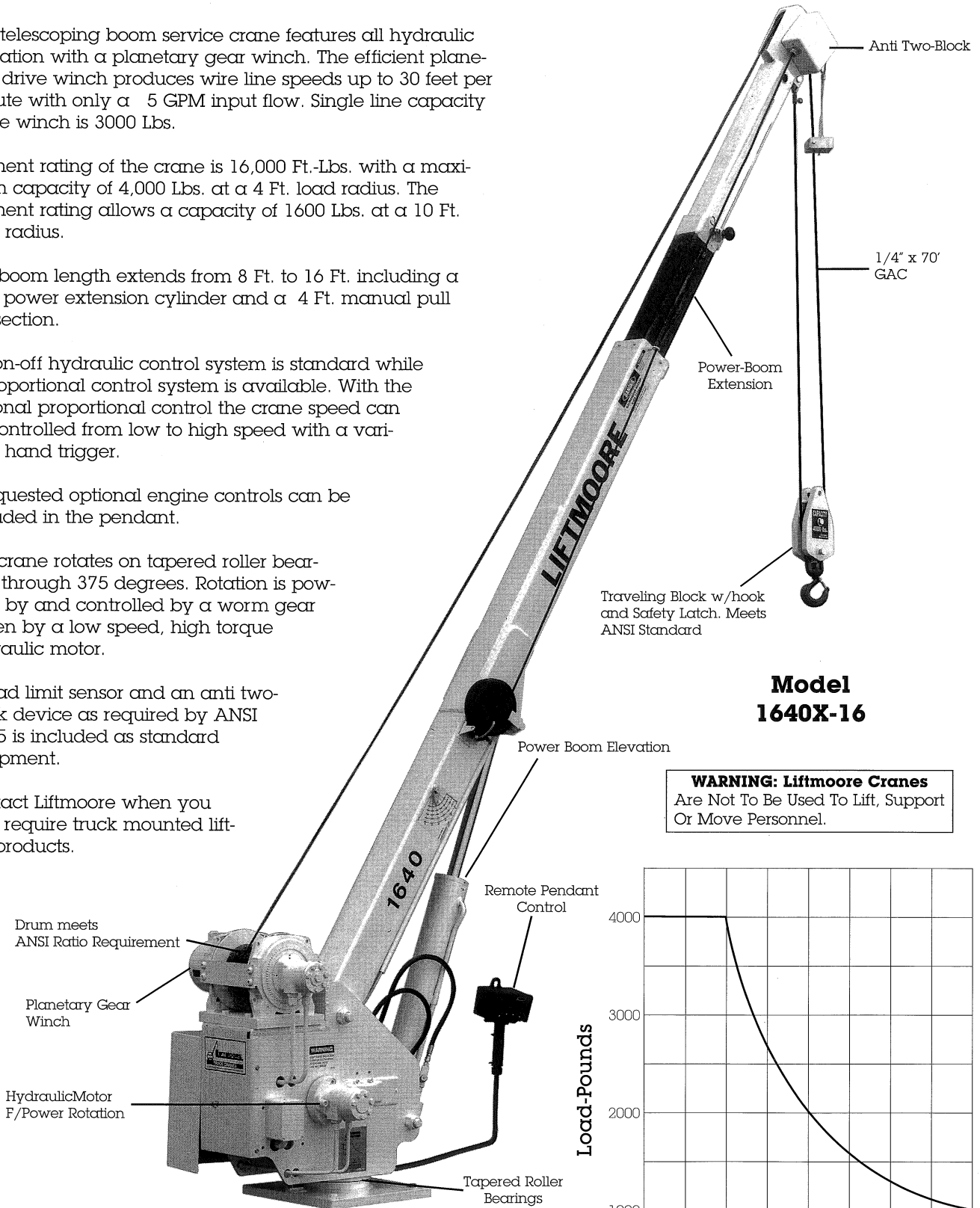
An on-off hydraulic control system is standard while a proportional control system is available. With the optional proportional control the crane speed can be controlled from low to high speed with a variable hand trigger.

If requested optional engine controls can be included in the pendant.

The crane rotates on tapered roller bearings through 375 degrees. Rotation is powered by and controlled by a worm gear driven by a low speed, high torque hydraulic motor.

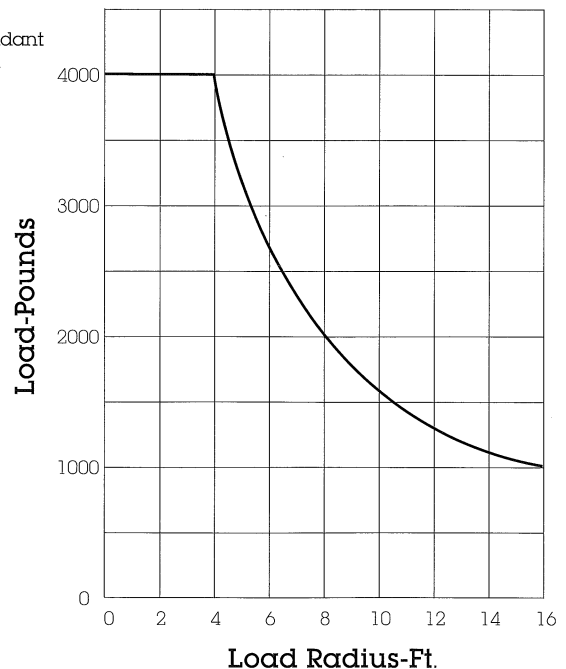
A load limit sensor and an anti two-block device as required by ANSI B30.5 is included as standard equipment.

Contact Liftmoore when you next require truck mounted lifting products.



**Model
1640X-16**

WARNING: Liftmoore Cranes
Are Not To Be Used To Lift, Support
Or Move Personnel.



Drum meets
ANSI Ratio Requirement

Planetary Gear
Winch

Hydraulic Motor
F/Power Rotation

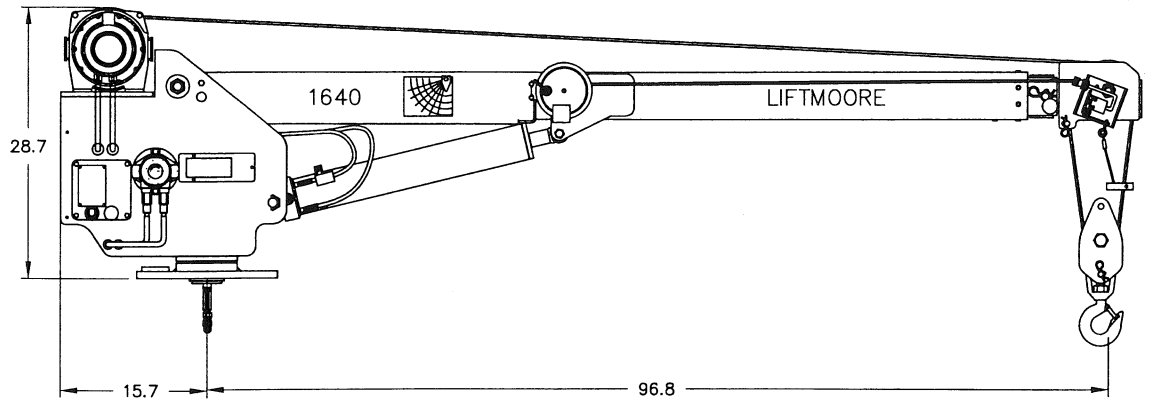
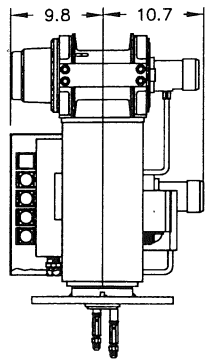
Remote Pendant
Control

Tapered Roller
Bearings



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1640 SPECIFICATIONS



Moment Rating:

16,000 Ft.-Lbs.

Lift Capacities:

4000 Lbs. @ 4 Ft.

2666 Lbs. @ 6 Ft.

2000 Lbs. @ 8 Ft.

1600 Lbs. @ 10 Ft.

1333 Lbs. @ 12 Ft.

1142 Lbs. @ 14 Ft.

1000 Lbs. @ 16 Ft.

Hoist Winch:

The hoist winch is planetary gear driven for the most efficient operation in the industry. The winch is powered by a low speed, high torque hydraulic motor. Single line speed of the winch is 30 Feet Per Minute with a 5 GPM input flow. Winch drum to wire line ration meets ANSI B30.5 requirements. Single line, bare drum capacity of the winch is 3000 Lbs.

Wire Rope and Traveling Block:

1/4 In. Galvanized Aircraft Cable 70 Ft. long is supplied with the crane. Breaking strength is 7000 Lbs. and meets ANSI requirements. A traveling block is supplied for use on either single or double line rigging. The block includes a swivel hook.

Boom:

The standard boom is power extendible from 8 to 12 Ft. with a 4 Ft. manual pull out section for extension to 16 Ft. Nylatron slide pads are used to reduce friction. An integrally mounted counterbalance valve is included with the cylinder for positive load holding and safety. The boom angle varies from -5 to +75 degrees elevated by a 3.5 In. diameter double acting hydraulic cylinder.

Rotation System:

A 54:1 self locking worm gear powered by a low speed, high torque hydraulic motor drives the crane's rotation. The 1640 rotates on two 4.00 In. ID tapered roller bearings. An electric switch limits the rotation to 375 degrees.

Remote Pendant Control:

All powered functions are controlled by a remote pendant control that is 20 Ft. long. The pendant control is removable from the crane. It is attached with a one-third turn quick connect plug. All switches used in the pendant are momentary contact.

Hydraulic System:

An engine driven hydraulic pump hydraulically powers all crane functions. PTO, pump, reservoir and hoses are not supplied with the crane. Flow and pressure requirements are 6 GPM at 2500 PSI. All directional control and flow controls valves are incorporated in a single manifold. The pressure compensated flow control system will dump excess flow at slightly above the function operating pressure, not the relief pressure setting.

Proportional hydraulic control is available as an option (model 1640XP). This control system gives the operator of the crane variable speed control of each crane function. All control is through the remote pendant control.

Load Sensor:

A load sensor is standard on the 1640. The load sensor will not allow hoist up, boom down or extension out 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 all 1640 model cranes. The anti two-block prevents extending the boom against the traveling block with the resulting possible cable breakage. The anti two-block will stop winch up, boom out and boom down when activated.

Boom Rest:

This crane requires a boom rest to support the crane boom while the vehicle is in motion. Liftmoore can supply this as an optional item.

Mounting:

Four 0.75" x 3.0" Long Grade 8 Hex Head Cap Screws and Lock Nuts are supplied for mounting. Hole pattern is 12" square. Mounting plate is 15" square.

Outriggers:

An outrigger is necessary to keep the truck as level as possible. The outrigger is necessary for stability requirements as well as reducing the load on the crane's rotation mechanism and the truck's suspension components. Liftmoore has outriggers available as options.

Chassis:

Minimum vehicle GVWR requirement for model 1640 cranes is 11,000 Lbs.

Weight:

985 Lbs.

Optional Accessories:

Outrigger - Manual pull out, crank up/down

Outrigger - Manual pull out, hydraulic up/down

Pedestal

Boom Rest

Jack Stand



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