

LIFTMOORE 2550 CRANE

25,000 FT. LB. MOMENT RATING
5,000 LB. MAXIMUM CAPACITY

Liftmoore's 2550 all hydraulic powered crane is the crane for your extended duty requirements. This model is designed for applications requiring longer duty cycles such as loading or unloading and longer lifting operations. With its 25,000 Ft. Lb. moment rating and 5,000 Lb. maximum capacity at 5 Ft. the 2550 provides the needed capacity for most field service applications.

360 degree continuous and unlimited rotation is standard on the 2550. Rotation is through a 45:1 ratio worm gear reducer driving a gear bearing slewing ring

- **2550X-20** Power extension from 10 Ft to 16 Ft with a manual pull out to 20 Ft.



Model 2550X

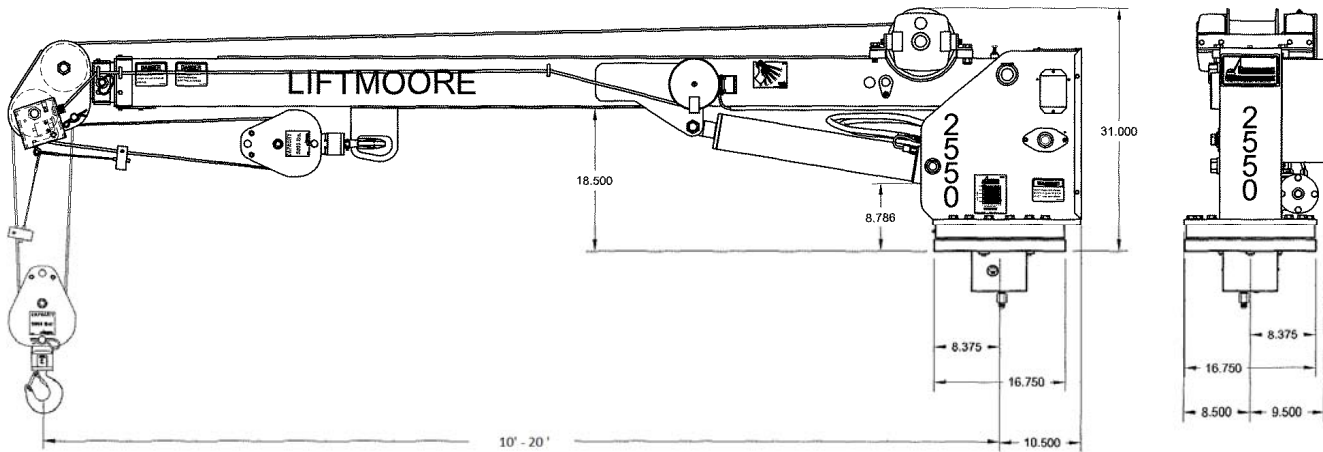
| LOAD CAPACITY - LBS. | | 25,000 FT-LBS | | | | | |
|----------------------|---|---------------|------|------|------|------|------|
| BOOM LENGTH - FT. | | 0° | 15° | 30° | 45° | 60° | 75° |
| 10 | — | 2500 | 2588 | 2887 | 3536 | 5000 | 5000 |
| 12 | — | 2083 | 2157 | 2406 | 2946 | 4167 | 5000 |
| 14 | — | 1786 | 1849 | 2062 | 2525 | 3571 | 5000 |
| 16 | — | 1563 | 1618 | 1804 | 2210 | 3125 | 5000 |
| 18 | — | 1389 | 1438 | 1604 | 1964 | 2778 | 5000 |
| 20 | — | 1250 | 1294 | 1443 | 1768 | 2500 | 4830 |



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2550 SPECIFICATIONS



MOMENT RATING:

25,000 Ft.-Lbs.

HOIST WINCH:

The winch is a worm gear design with 38:1 gear ratio. A multiple disk safety brake is installed on the worm shaft that incorporates a one way clutch that releases on winch up. The winch is powered by a low speed, high torque hydraulic motor. Single line no load speed of the winch is 20 ft. per minute at 6 GPM. Ratio between winch drum and wire rope meets ANSI B30.5 requirements.

| | |
|----------------------|--------------------|
| ** 5000 Lbs. @ 5 ft. | 1562 Lbs. @ 16 ft. |
| ** 3125 Lbs. @ 8 ft. | 1388 Lbs. @ 18 ft. |
| 2500 Lbs. @ 10 ft. | 1250 Lbs. @ 20 ft. |
| 2083 Lbs. @ 12 ft. | |

** Two part line required for loads above 3000 Lbs.

WIRE ROPE and SHEAVES:

The crane is supplied with 80 Ft. of 5/16 in. galvanized aircraft cable. Minimum breaking strength of the rope is 9,800 lbs. The wire rope is outside of the boom and visible for operators continual inspection. A 3-ton capacity thrust bearing swivel-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, elevated by a 4.00 in, bore double acting cylinder. The cylinder has an integral counterbalance valve with relief set at 2500 PSI. The counter balance valve will hold the cylinder in the event of hose failure and it controls the rate of boom decent.

Model 2550X-20:

The boom extends under power from 10 Ft. to 16 Ft. and manually from 16 Ft. to 20 Ft. with one intermediate position at 18 Ft.

HYDRAULIC SYSTEM:

For smooth operation and minimum heat buildup a pressure compensated flow control system is used. The system will not build up pressure above the level required to operate a function. This reduces the heat buildup in the oil and the power required from the engine. Valves are in a series control circuit.

ROTATION SYSTEM:

Rotation is unlimited on a gear bearing with an internal gear driven by a worm gearbox. The worm gearbox ratio is 45:1 and it is driven by a low speed, high torque hydraulic motor.

CONTROLS:

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 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.

ELECTRICAL:

The 2550 crane's powered functions are all controlled by 12V DC. electric solenoid valves. 25Ft. of 10 guage wire and a 15 Amp fuse are included.

ANTI TWO-BLOCK:

The anti two-block is standard on this crane and prevents extending the boom against the travel block with possible breakage of the cable

MOUNTING: A minimum 14,500 Lb. GVWR recommended.

Four 7/8" Grade 8 bolts are required. Bolts are not furnished. Mounting plate is 16-3/4" square with a 14-3/4" square bolt pattern.

ACCESSORIES:

An outrigger is needed for stability requirements of OSHA 1910.180. The outrigger is necessary to reduce the load on the crane's rotation assembly and the truck's suspension. A Boom rest is also required. Liftmoore offers both as options.



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