

# **HT66KX with VLC™ BID SPECIFICATIONS**



## **GENERAL DESCRIPTION**

The crane shall be a pedestal mounted service crane that operates from a hydraulic P.T.O. system. It shall have a single line capacity of 5500 lbs. and a 11,000 lbs. capacity with a two part line. The maximum overturning moment rating shall be 66,000 ft\*lbs. Crane shall meet OSHA 1910.180 requirements and ANSI/ASME B30.5 safety standards.

## **PAINT SPECIFICATIONS**

The crane shall be painted with Imron© 333M/42P High Solids Polyurethane Enamel (Venturo Grey).

## **HYDRAULIC REQUIREMENTS**

The crane shall have an open center system that operates on 12 GPM at 3000 psi. The hydraulic reservoir shall have a 20 gallon capacity with a 100 mesh suction filter. The hydraulic system shall include a 10 micron return filter.

## **TELESCOPIC HEXAGONAL BOOM**

The boom shall telescope to provide a horizontal reach range of 12 ft. to 25 ft. using 6.5ft. and 6.5ft. hydraulic power extension sections (13ft total).

The power extension boom shall have bearing pads on all sides made from UHMW polyethylene to provide low friction and wear rate without the use of lubricants.

## **POWER EXTENSION**

The boom shall be extended by dual, double-acting hydraulic cylinders with an integral counterbalance valve to prevent the boom from retracting should a loss of hydraulic pressure occur. The sections shall extend in sequence with the secondary section leading the tertiary section to minimize wear.

The cylinder shall be mounted inside of the boom.

The extension speed shall be 30 ft. /min. at 12 GPM.

## **BOOM ELEVATION**

The boom elevation angle range shall extend from 8 degrees below horizontal to 75 degrees above horizontal.

The boom shall be elevated by a double-acting hydraulic cylinder with an integral counterbalance valve to prevent the boom from lowering should a loss of hydraulic pressure occur.



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## SHEAVES

The boom end load hoisting sheaves shall be made of polymer composite material and have a pitch diameter of at least 18 times the 7/16" wire rope diameter per ANSI B30.5. Sheave bearings shall be made of maintenance-free composite material.

## CAPACITY CHARTS

Easy-to-read capacity charts with indicator arrows showing the boom angles and capacities for various reaches shall be located on each side of the boom.

See drawing 23803 (attached) for complete capacity specifications.

## HYDRAULIC WINCH

The winch shall have a high efficiency, 2-stage, planetary gear reduction system with a spring-applied, hydraulic-released multi-disk brake with sprag and shall be driven by a hydraulic gear motor.

The winch line capacity shall be 5728 lbs. on the second layer with a line-speed of approximately 67 ft./min. at 12 GPM.

## WINCH PERFORMANCE

The nominal winch performance on the second wrap shall be as follows:

Load (lbs.)	Part Line	Lifting Speed (ft./min. at 12 GPM)
0	1	67
2800	1	67
5500	1	67
11,500	2	33

## WINCH DRUM

Winch drum first layer wire rope pitch diameter shall be at least 18 times the 7/16" wire rope diameter per ANSI B30.5.

The winch drum shall be at least 7 inches wide between flanges. The winch drum shall have sufficient capacity to allow up to 142 ft. of wire rope to be used.

## WIRE ROPE

The standard 7/16" diameter 7 x 19 galvanized aircraft wire rope shall be 100 ft. long.

The wire rope shall have a minimum breaking strength of 19,250 lbs. or more than 3-1/2 times the 5500 lb. rating single line capacity per ANSI B30.5. The wire rope shall be outside of the boom so that the wire rope and winch drum are visible to the operator.



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## **LOAD BLOCK**

The crane shall be supplied with a load block that will allow quick conversion from single to two part line operation. The load block shall be provided with a 7-ton carbon steel swivel hook with safety latch. The sheave shall be made of polymer composite material and have a pitch diameter of at least 16 times the 7/16" wire rope diameter per ANSI B30.5. Sheave bearings shall be made of maintenance-free composite material.

## **ROTATION**

The hydraulic powered rotation system shall have positive mechanical stops to limit the rotation to a maximum of 400 degrees.

The rotation drive line shall be self-locking.

The crane housing shall rotate on a sealed ball bearing slewing ring with integral rotation drive gearing.

## **VENTURO LOGIC CONTROLS (VLC™)**

Venturo's new Electronic Crane Control Management System provides added safety and benefits for crane operators. VLC™ features include a standard, wireless, pistol-grip controller, overload protection which controls and prevents any type of overload, LCD Display Screen alerts, transmitter handle vibrations, green/yellow/red alert lights under boom, and corresponding lights on the receiver. The LCD display shows percentage of load, boom angle in degrees and percentage of total capacity during crane operation. The VLC™ system also provides vehicle stability and grade control.

## **OVERLOAD SENSING SYSTEM**

The crane shall have an overload sensing system that shuts off the **winch up, boom down** and **boom out** functions to prevent excessive overloads when the crane capacity is exceeded. The winch down, boom up boom in, and rotation functions shall remain in operation to get the crane out of the overload condition.

## **ANTI-TWO BLOCK SYSTEM**

An anti-two block system shall be provided to prevent damage to the wire rope by disabling the winch up, boom down, and boom out functions (three function shut-down).

## **CRANE BASE**

The crane base shall be 16 inches square and provided with 4-holes for 1.25 inch diameter bolts. The four mounting bolts shall be Grade-8.

## **WARRANTY**

The manufacturer shall warranty the crane for one year from the date of original installation.

**Specifications Subject to Change Without Notice**



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