

# HT25KX 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 2500 lbs. and a 5000 lb. capacity with a two part line. The maximum overturning moment rating shall be 25,000 ft. lbs.

## 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 2 GPM (non-proportional) or 4 GPM (proportional) at 3000 psi. The hydraulic reservoir shall have an 8 gallon capacity with a 100 mesh suction filter. The hydraulic system shall include a 10 micron return filter.

The valve block shall include valve coils with manual overrides for each function.

## TELESCOPIC BOOM

The boom shall telescope to provide a horizontal reach range of 10 ft. to 20 ft. using a 6 ft. hydraulic power extension section and a 4 ft. manual extension section.

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 a double-acting hydraulic cylinder with an integral counterbalance valve to prevent the boom from retracting should a loss of hydraulic pressure occur.

The cylinder shall be mounted inside of the boom.

The extension speed shall be 12 ft./min. at 2 GPM (non-proportional) or 24 ft/min at 4 GPM (proportional).

## 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.



TITLE	HT25KX BID SPECS	DATE	2-19-03C	SECTION	1 OF 3
	-	SUPERCEDES	2-4-03B		19622

## SHEAVES

The boom end load hoisting sheave shall be made of polymer composite material and have a pitch diameter of at least 18 times the 5/16 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 boom angles and capacities for various reaches shall be located on each side of the boom.

See drawing I19233 (attached) for complete capacity specifications.

## HYDRAULIC WINCH

The winch shall have a high efficiency planetary reduction 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 2700 lbs. on the second layer with a line speed of approximately 55 ft/min. at 5 GPM (22 ft / min at 2 GPM).

## WINCH PERFORMANCE

The nominal winch performance shall be as follows:

Load (lbs)	Part Line	Lifting Speed (ft / min.)	
	<b>2 GPM</b>	<b>5 GPM</b>	
0	1	22	55
1000	1	22	55
2700	1	22	55
2700	2	11	27
5400	2	11	27

## WINCH DRUM

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

The winch drum shall be at least 6in. wide between flanges. The winch drum shall have sufficient capacity to allow up to 110 ft. of wire rope to be used.

## WIRE ROPE

The standard 5/16 in. diameter 7 x 19 galvanized aircraft wire rope shall be 80 ft long and fitted with a 3-Ton carbon steel eye hook with safety latch.

The wire rope shall have a minimum breaking strength of 9800 lbs. or more than 3-1/2 times the 2500 lb rated 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.



VENCO VENTURO INDUSTRIES LLC  
CINCINNATI, OHIO

TITLE

HT25KX BID SPECS

DATE

12-01-16D

SECTION

2 OF 3

SUPERSEDES

02-19-03C

19622

## SNATCH BLOCK

The crane shall be supplied with a snatch block that will allow quick conversion from single to two part line operation. The snatch block shall be provided with a 3 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 5/16 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 turntable style bearing. ▲

## REMOTE CONTROL

The crane shall have a remote control pendant with environmentally sealed switches, a switch bat guard, a hook for hanging the pendant, and a 25 ft. (minimum) cord. The cord shall have a plug so that it can be unplugged from the crane when not in use. The socket receives the plug shall be mounted in the service body compartment or mounting pedestal below the crane. ▲

## 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 function shall remain in operation to get the crane out of the overload condition.

## ANTI-TWO BLOCKING

An anti-two-blocking feature 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 in. square and provided with 8 holes for 3/4 diameter bolts to spread the load and make it unnecessary to use special high strength bolts.

## WARRANTY

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

**Specifications Subject to Change Without Notice**