

# **DT7K BID SPECIFICATIONS**



## **GENERAL DESCRIPTION**

The crane shall be a pedestal mounted service crane that operates on 12 volt D.C. battery power. It shall have a single line capacity of 1200 lbs. and a 2200 lb. capacity with a 2 part line. The minimum overturning moment rating shall be 7,200 ft. lbs. except where limited by winch capacity.

## **PAINT SPECIFICATIONS**

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

## **TELESCOPIC BOOM**

The boom shall manually telescope to provide a reach range of 38 in. to 125 in.

## **BOOM ELEVATION**

The boom elevation angle range shall extend from horizontal to 60 degrees above horizontal.

The boom shall be manually elevated with the assistance of a spring counterbalance.

## **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 3/16 wire rope diameter per ANSI B30.5.

▲ Sheave bearings shall be made of maintenance free composite material.

## **CAPACITY CHARTS**

Easy to read Capacity Charts showing boom angles and capacities for various reaches shall be located on each side of the boom.

## **WINCH POWER UNIT**

The winch power unit shall be electric powered with a self locking worm gear reduction capable of holding maximum static load. It shall have a mechanical brake to provide power controlled lowering.

## **WINCH PERFORMANCE**

The nominal winch performance shall be as follows:

Load (lbs.)	Part Line	Lifting Speed (ft./min.)
0	1	25
1200	1	13
1200	2	10
2200	2	7



MFG., INC.  
CINCINNATI, OHIO

TITLE  
**DT7K BID SPECS**

DATE  
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SECTION  
**1 OF 3**

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SUPERCEDES  
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**19396**

## WINCH DRUM

Winch drum first layer wire rope pitch diameter shall be at least 16 times the 3/16 wire rope to be used on the crane. The winch drum shall have sufficient capacity to allow up to 100 ft. of 3/16 wire rope to be used on the crane.

## WIRE ROPE

The standard 7 x 19 3/16 galvanized aircraft wire rope shall be 50 ft. long and fitted with a 3/4 ton carbon steel eye hook with safety latch.

The wire rope shall have a minimum breaking strength of 4200 lbs. or 3-1/2 times the 1200 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.

## 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 1-1/2 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 3/16 wire rope diameter per ANSI B30.5. Sheave bearings shall be made of maintenance free composite material. ▲

## OVERHAUL WEIGHT

The crane shall be provided with a 6 lb. overhaul weight for use with single line operation, that can be easily removed for two part line operation.

## ROTATION

The crane shall have 360 degree continuous manual rotation with an 8 position positive lock to hold the crane firmly in place while in use and when traveling. The crane housing shall rotate on oil impregnated bronze or composite polymer/bronze bearings that do not require lubrication and are not sensitive to water or dirt contamination.

## REMOTE CONTROL

The crane shall have a remote control pendant with a switch bat guard, a hook for hanging the pendant, and a 15 ft. cord. The cord shall have a plug so that it can be unplugged from the crane when not in use. The pendant shall be convenient to hold and operate with one hand.

## ELECTRICAL INSTALLATION

For electrical installation a #4 x 25 ft. battery cable shall be provided. A #4 x 4 ft. battery cable fixed to the crane that can be routed either through the side or bottom of the crane base shall also be provided.

A master disconnect switch shall also be provided.

## CRANE BASE

The crane base shall be 12 in. square and provided with 8 holes for 1/2 in. diameter bolts to spread the load and make it unnecessary to use special high strength bolts. A load hook tie down eye shall be built into the base.

## WARRANTY

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

**Specifications Subject to Change Without Notice.**