

**SECTION 14060****HOIST AND TROLLEY****PART 1 - GENERAL**

## 1.01 SCOPE

The Contractor shall furnish and install hoist and trolley as specified and as required for a complete and satisfactory installation. This section specifies a one ton hoist capacity, shop drawings and product data submittals shall be based on hoist and trolley selected for the intended design parameters.

## 1.02 REFERENCES

The hoist shall be designed and manufactured in accordance with the latest editions of codes, standards, and specifications of the following:

Hoist Manufacturer's Institute Specification No. HMI-100-74

ANSI B30-16, "Overhead Hoist"

American Gear Manufacturer' Association

ANSI B30-10, "Hooks"

Occupational Safety and Health (OSHA)

## 1.03 QUALITY ASSURANCE

- A. The hoist must be the standard product of the manufacturer, employed in the production of chain geared hoist for a minimum of five consecutive years within the continental United States of America, and be a member of the Hoist Manufacturers' Institute.
- B. All apparatus covered by this specification shall be constructed in a thorough and workmanlike manner. Due regard shall be given in design for the safety of operation and durability of parts.

**PART 2 - PRODUCTS**

## 2.01 HOIST

The hoist shall be of spur-gear design with a body of malleable cast iron. Hoist brake is to be self actuating screw type. Bearings re to be tapered roller bearings. Hoist capacity to be rated at one ton and shall be as manufactured by Philadelphia Hoisting Equipment, Model 102/Timken Bearing as modified herein or an approved equal:

- A. Hoist throat shall be 3-inches with a safety latch.
- B. Lift height to be 18 feet.

- C. Load chain of high carbon steel, electrically welded, heat treated and non-sparking.
- D. Hook shall be non-sparking hook for spark resistant service.

## 2.02 TROLLEY

Trolleys shall consist of one Philadelphia Model 22-Economy and one Philadelphia Model PT, Catalog 3403 as manufactured by Philadelphia Hoisting Equipment or an approved equal.

## **PART 3 - EXECUTION**

### 3.01 INSTALLATION

The equipment shall be erected by the Contractor in accordance with the manufacturer's printed instructions. The Contractor shall be responsible for any additional supports required to provide a safe operating system, and these supports shall be furnished and installed by the Contractor.

### 3.02 TOOLS, SUPPLIES AND SPARE PARTS

The equipment manufacturer shall furnish all special tools necessary to disassemble, serve, repair and adjust the equipment and one year's supply of all recommended lubricant oils and greases.

END OF SECTION