

## **DESCRIPTION OF THE 7.5 TONS OVERHEAD CRANES**

### **1.0 Operating Conditions**

The crane shall be suitable for installation in an environment as follows:  
Crane will be installed inside a building, protected from rainfall by the roof and siding on the upper part of walls.

### **2.0 Design and Construction**

Crane shall be a two-girder, top running, electric overhead traveling bridge crane of 7.5 ton capacity, designed, constructed, and tested to requirements of Crane Manufacturers' Association of America, Inc. (CMAA) no. 70 and as specified herein.

Crane shall be suitable for three - shift operation, with a normal loading (50% of the time) of 5 tons, 7 days per week; CMAA crane service classification "D".

The hoist shall be equipped with two cables with two hooks. Centerline of hooks shall be parallel with bridge girders. Hook spacing shall be eleven feet. Drum shall be designed to handle the load with minimum oscillation and provide a true vertical lift while equalizing the heights of the two hooks. Hooks shall be insulated from the traveling blocks for 600 Vac.

As far as practicable, reeving shall be such that the vertical motion of the hooks shall be in the same vertical line, and the load shall be stable during motion.

Bridge span shall be 63 feet, center to center of runway rails. Total length of runway rails between crane stops will be approximately 630 feet.

Maximum operating speeds with full load shall be as follows:

	<u>Feet / Minute</u>
Hoist	140
Trolley	150
Bridge	360