

DESIGN OF A WALL CRANE

by

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ABSTRACT

This project deals with the design of a wall crane suitable for lifting a load of 25 KN and be able to rotate in order to cover a floor area of 3 m radius.

The project is divided in four main chapter:

The first chapter describes the various types of cranes, with special attention to those used in the industry.

The second chapter deals with a preliminary selection of the type of crane to be designed.

The third chapter is the most extensive part of the project and deals with the detailed design of the different parts of the crane, as well as the selection of machine elements and materials.

The fourth chapter describes the various hoist units, and deals with the selection of the unit to be used in this project.

Tables, figures and references, as well as manufacturing drawings are attached at the end.

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