DESIGN OF A BARREL HANDLING SYSTEM

Diploma project: M/536

Submited by: SAVVA N. ANDREAS

For part satisfaction of the award of technicial engineer in Mechanical Engineering Cource of the Higher Technical Institute, Nicosia, Cyprus.

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(Director of S. Stavrinides Ltd.)

Type of project: Individual

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ABSTRACT

Objectives

1. To apply an appropriate design process in order to design a barrel lifting/pouring/lowering system.
2. To apply creativity decission making and optimization phases.
3. To present all design calculations.
4. To present selection procedures and detailed specifications for items that are not to be designed.
5. To specify all materials and manufacturing processes.
6. To present detailed layout, assembly and manufacturing drawings.
7. To present a detailed cost estimate.

Conditions

1. CYS / ISO / BS standards.
2. The system must be able to raise a barrel full of tar at a height of 5m.
3. Must be able to pour the contents and return back to its base.
4. The system must be flexible and have automated functions, safety interlocks and height adjustability.

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