

DESIGN OF A BARREL HANDLING SYSTEM

Diploma project: M/536

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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 decision 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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