

DESIGN OF A PASSENGER CONVEYOR

Project report submitted by

ANDREOU PETROS

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Project Supervisor : Mr. N. Papanastasiou
Lecturer in Mechanical
Engineering, HTI

External Assessor : Mr. Y. Anatolitis

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A B S T R A C T

This project deals with the design of a pallet band passenger conveyor. This passenger conveyor will transport passengers at a height of 3m and a distance of 20m. Its maximum capacity will be 30 passengers.

Chapter 1 is an introduction to the problem indicating any restrictions and decisions.

Chapter 2 deals with the detailed design of each part of the pallet.

Selection of the conveyor chain, conveyor wheels, motorised gearbox and handrail power transmission is done in chapter 3.

Chapter 4 deals with the design of conveyor wheels shaft and handrail shaft and includes selection of their accessories.

Chapter 5 deals with the design of the chain support.

Chapter 6 deals with the design of the structure.

Chapter 7 deals with controls, safety and maintenance of the conveyor and includes a maintenance sheet for the most important parts.

Chapter 8 is a detailed cost analysis of the passenger conveyor.

At the end in appendices, tables and drawings of the passenger conveyor as well as references are included.

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