

HIGHER TECHNICAL INSTITUTE

**MECHANICAL ENGINEERING
DEPARTMENT**

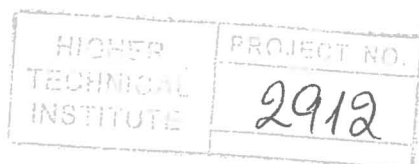
DIPLOMA PROJECT

**DESIGN OF A PRESSING TOOL FOR
BLANKING AND PIERCING
OPERATIONS (M/826)**

by

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(3ME1)**

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HIGHER TECHNICAL INSTITUTE
NICOSIA - CYPRUS
MECHANICAL ENGINEERING DEPARTMENT
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Project Number: M/826

Title: "Design of a Pressing Tool for Blanking and Piercing Operations"

Objectives:

1. To design a blanking and piercing press tool for a given component.
2. To present the object to be constructed giving details as to where it will be used and justifications for its choice.
3. Prepare detailed drawings for all parts.
4. To draw an assembly of the tooling system.
5. To make all calculations including shearing forces and to select materials and possible heat treatment.
6. Select the correct capacity of the press.
7. Describe the sequence of operations for the construction of all parts.
8. To make an economic appraisal of the tooling system.

Terms and Conditions:

1. The component to be manufactured will be selected.
2. Quantity to be produced will be 5,000.
3. A light and compact construction is preferred.
4. All dimensions and tolerances must be according to ISO standards.

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DR/AEP
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by

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Project report

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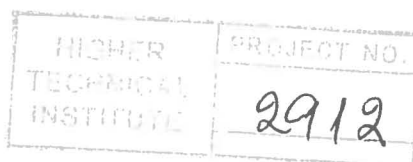
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