### HIGHER MECHINICAL INFORTATIONS

MECHANICAL ENGINEERING COURSE

## DIPLOMA PROJECT

DESIGN AND CONSTRUCTION OF A HOLDER FOR THE PREPARATION OF METALLURGICAL SPECIMENS

M/996

CHRISTOFOROS VARNAVA

JUNE 2004

#### HIGHER TECHNICAL INSTITUTE

#### MECHANICAL ENGINEERING COURSE

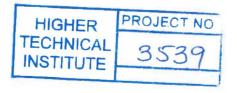
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# DEDIGN AND CONSTRUCTION OF A HOLDER FOR THE PREPARATION OF METALLURGICAL SPECIMENS

By

Christoforos Varnava

**Project Report** 

Submitted to

the department of mechanical engineering

of the higher technical institute

Nicosia Cyprus

in partial fulfillment of the requirements

for the diploma of

**TECHNICIAN ENGINEER** 

in

**MECHANICAL ENGINEERING** 

HIGHER TECHNICAL INSTITUTE PROJECT NO 3539

HIGHER TECHNICAL INSTITUTE NICOSIA-CYPRUS

MECHANICAL ENGINEERING DEPARTMENT

Diploma projects 2003/2004

Project Number: M/996

Title: "Design and construction of a holder for the preparation of metallurgical

specimens"

**OBJECTIVES** 

1. To prepare a study on the preparation of metallurgical specimens with

particular reference to polishing.

2. To design the holder.

3. To select materials and equipment for the design.

4. To prepare detail drawings with technical specifications.

5. To construct the holder.

**TERMS AND CONDITIONS:** 

1. The holder must be suitable for the polishing of up to six round

specimens of 16 mm diameter.

2. The holder must be suitable for mounting on the existing STRUERS DP

9 automatic polisher.

3. Safety regulations and procedures must be considered.

Student: Varnava Christoforos

Supervisor: George Katodrytis

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