

HIGHER TECHNICAL INSTITUTE

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

DIPLOMA PROJECT

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

M/996

CHRISTOFOROS VARNAVA

JUNE 2004

HIGHER TECHNICAL INSTITUTE	PROJECT NO
	3539

**DESIGN 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

June 2004

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