

# 萬能材料試驗機

Material Test Machine

Model: M500-25AT

## 一、測試目的：

由材料試驗機之測試了解材料機械性質。

## 二、樣品準備須知及注意事項：

1.試片之準備：以 CNS 4396 或 ASTM D 638 方法製作製片。

2.量測速率：0.001 mm/min to 500 mm/min。

3.Load cell: 25000 N (2500 kgf), 10000 N (1000 kgf), 100 N (10 kgf) ,

準確度: 0.1 %。

4.測量模式(Test Type):

A、Step tensile (階梯式拉伸)

B、Tear (撕裂)

C、Tens. Cycling (Ext) (週期式拉伸(Ext))

D、Tens. Cycling. (Load) (週期式拉伸(負載))

E、Tensile (拉伸)

F、Yarn

## 三、限制：

## 四、使用方法：

1.系內使用以登記申請，由專責技術員指導自行分析為原則。

2.系外單位申請，須經登記申請，並經系主任及負責老師同意後，始可測試。

## 五、負責老師：何明樺

# Universal Testing Machine

## Model: M500-25AT

### I. Purpose:

To characterize the mechanical properties of materials.

### II. Sample preparation instructions and precautions:

1. Sample preparation: by CNS 4396 or ASTM D 638 method.
2. Crosshead speed: 0.001 mm / min to 500 mm / min.
3. Load cell: 25000 N (2500 kgf), 10000 N (1000 kgf), 100 N (10 kgf)
4. Test Type: A, Step tensile
  - B, Tear
  - C, Tens. Cycling. (Ext)
  - D, Tens. Cycling. (Load)
  - E, Tensile
  - F, Yarn

### III. Restrictions:

### IV. Application:

1. Registration for application in advance is required. Users are required to operate the instrument themselves.
2. For users outside the department application should be signed by the chairman of the Chemical Engineering Department and the professor-in-charge for the equipment.

### V. Professor-In-Charge: Ming-Hua Ho (何明樺)