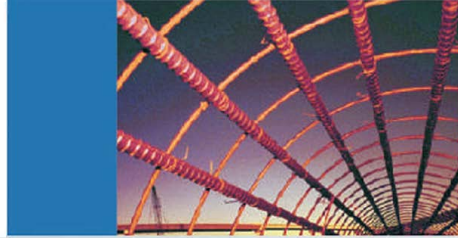


# CHUN YEN

Chun Yen has the right to modify the specification and design of machine without prior notice.



## CY-6102

50 kN MICRO COMPUTER SERVO TYPE  
UNIVERSAL TESTING MACHINE



### Descriptions

The CY-6102 are twin column. Frame rigidity is 90 kN/mm and Column width is 400 mm. The CY-6102 are bench top system ideal for tensile, compression, shear, flexural and cyclic testing applications, load hold and other forms of testing applications.

CY-6102 control is performed using software and computer workstation. Can control work and display results via computer.



## FEATURE

- Measure and calculate result graphically
  - Force x Length
  - Stress x Strain
  - Strain x Time
- Position measurement accuracy is  $\pm 50$  micrometer or  $\pm 0.1\%$  of indicated value when the reading is greater than 20 mm.
- Servo Control with Computer System.
  - PC control; control mode; close loop
  - Constant speed control mode
  - Constant speed load control mode
  - Constant speed stress control mode
  - Constant speed strain control mode
  - Constant speed stress – constant speed strain mode
- Accuracy of the loadcell, speed, and stroke of the machine according to standards per ASTM E4 or ISO 7500-1 or EN10002
- Can create test setups using internationally accepted testing standards from ASTM or ISO or DIN
- The maximum force acting on the load cell can be set to stop the test beam from moving. When the force acting on Load cell reaches the set value
- Limit Switches are located on the side of the column and used to restrict crosshead travel. Position your upper and lower travel limit switches
- Data Processing Program:
  - Test Graph; Analysis Function
  - To set the save path of data
  - Data Layout Module
  - Load →Elongation
  - Load →Time
  - Stress→Strain
  - Stress →Time
  - Strain →Time

## CY-6102

### 50 kN MICRO COMPUTER SERVO TYPE UNIVERSAL TESTING MACHINE

#### IN ACCORDANCE WITH

ISO 7500/1  
EN 1002-2

BS1610  
DIN 5122

ASTM E4  
JIS B7721/B7733

GB 228-87  
JJG 139-1999

CNS 2111,9471,9470

#### SPECIFICATIONS

|                                   |   |                          |                                    |
|-----------------------------------|---|--------------------------|------------------------------------|
| Load Capacity                     | 5 kN  | Crosshead speed accuracy | $\pm 0.1\%$ of reading             |
| Crosshead speed                   | 0.001 to 250 mm/min                               | Data sampling            | 1 to 1000 Hz                       |
| Position control resolution Total | 100 nm  | Operating temperature    | 10 c to 35 c                       |
| Crosshead travel                  | 1000 mm   | Humidity                 | 20% to 85% at non condensing       |
| Total weight                      | 300 kg  | Power                    | 220-240 Vac, 50 Hz, 1 Phase        |
| WxDxH                             | 1000x800x1800 mm                                  | Gripper                  | Tensile Test : 50 kN (flat, round) |
| Load Measurement Accuracy         | $\pm 0.5\%$ of reading<br>of indicated test force |                          | Compression Test : 50 kN           |
| Column width                      | 400 mm  |                          | Flexural Testing : 50 kN           |