

Tensile Testing Equipment

(Brochure)

<http://www.pegotester.com>

PEGO GROUP (HK) CO., LIMITED.

Address: Room 912A, Floor 9, Vader commercial building, Tongzhu Street, Mong Kok, Kowloon, Hongkong

E-MAIL: salesHK@pegotester.com

PEGO TESTER (JIANGXI)

ADDRESS: No.233, Yangshan Road, Yuanzhou District, Yichun, Jiangxi, 336000, China

E-MAIL: sales@pegotester.com

service@pegotester.com

TEL: 86-(0)795-3560528 FAX: 86-(0)795-3560528

EMC&EMI Test System: http://www.pegotester.com/products/EMC_EMI

Integrating Sphere System: http://www.pegotester.com/products/integrating_sphere

Goniophotometer test system: <http://www.pegotester.com/products/goniophotometer>

Electrical Safety Tester: http://www.pegotester.com/products/Safety_tester

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AC&DC Power Supply: http://www.pegotester.com/products/power_supply

IEC60061-3 Lamp Gauges: <http://www.pegotester.com/products/gauge>

IEC and UL Probes for verification: <http://www.pegotester.com/products/probe>

1. Introduction

JY-1000 tensile test equipment adopts microcomputer control power supply and servo motor, it is applied to do the test of stretching, Compression, bend and shear of metal and non-metallic material, it is widely applied to the fields of metallurgy, building, light industry and material. Fully meet the requirements of GB228-2002.

2. Specification

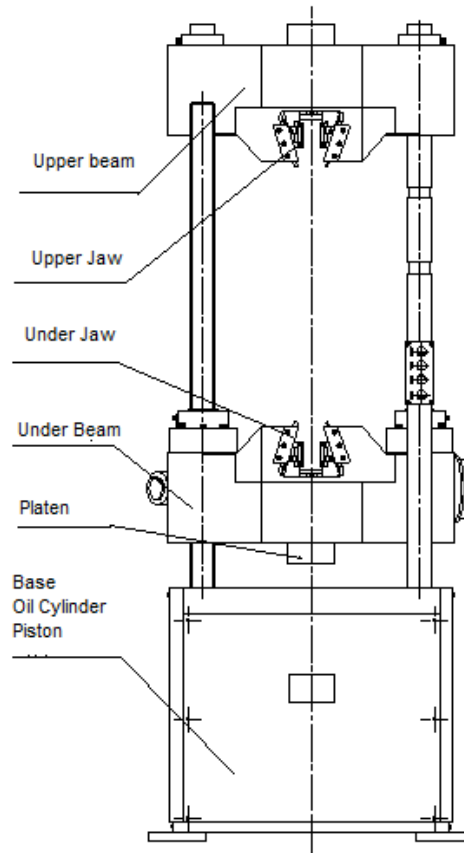
- Max test force: 2000KN
- Test range: 40KN-2000KN
- Accuracy: $\pm 1\%$
- Resolution: 0.01mm
- Deformation testing
 - a) Standard distance: 50mm
 - b) Max deformation: 10mm

- Deformation accuracy: $\pm 0.5\%$
- Constant force, constant deformation and constant displacement control range: 0.4%~100% FS
- Constant force, constant deformation and constant displacement control accuracy:
 - a) within $\pm 1.0\%$ of setting value @ setting value < 10%FS
 - b) Within $\pm 0.5\%$ of setting value @ setting value $\geq 10\%$ FS
- Deformation rate control accuracy:
 - a) within $\pm 2.0\%$ of setting value @ rate < 0.05%FS
 - b) Within $\pm 0.5\%$ of setting value @ rate $\geq 0.05\%$ FS
- Max moving speed of piston: 60mm/min
- Max stretch test space: 900mm
- Max compression test space: 700mm
- Thickness of the clamps: 0-600mm and $\phi 15-\phi 70$ mm
- Size of platen: 204*204mm
- Width of roll: 140mm
- Diameter of fulcrum: 50mm
- Travel of piston: 250mm
- Clamping method: hydraulic tightening
- Amplifier: Build in PC, auto zeroing and calibration
- Dimension
 - a) Mainframe: 1400mm*850mm*3300 mm
 - b) Oil source: 1140mm*700mm*930mm
- Weight: 8500kg



3. Structure

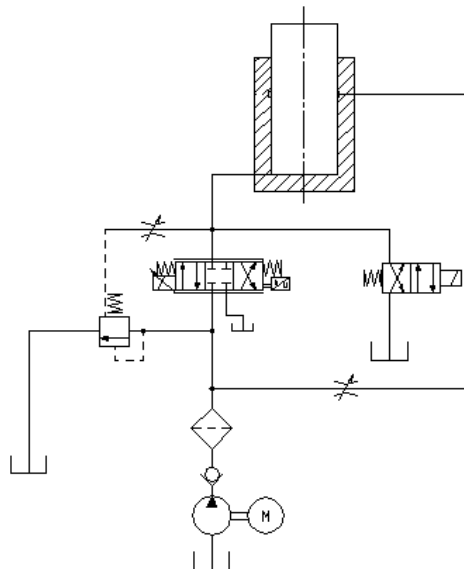
1) Mainframe



2) Drive System

The up-down of beam drives by hydraulic motor, synchronous belt and nut screw, to adjust the stretch and compress.

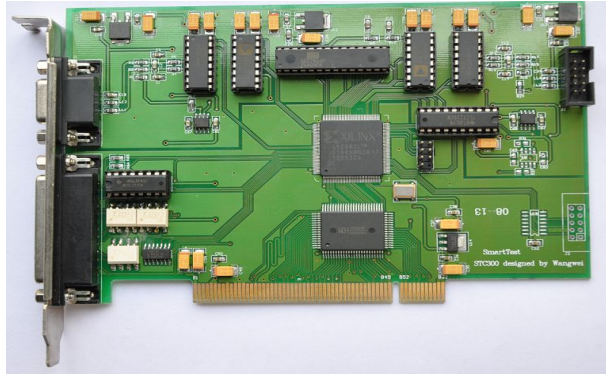
3) Hydraulic System



4) Control System

Adopts STC300 all digital closed loop measurement and control system with the following features:

- a) Realize the four closed loop controls: test force, sample deformation, piston displacement and test progress.
- b) Data collection system is consisted by 4 channels high accuracy 24 digits A/D shift channels, the max resolution is 1/300000.
- c) Adopts branded components, like BB. AD, Xilinx, all digital design.
- d) Meet the requirement of PCI, microcomputer auto identification and installation.



5) Software

Meet the GB and IEC standards.

- a) With features of high integration level, high stability and easy adjustment. Real-time to collect the test data and draw the curve.
- b) Protection function: software protection and mechanical protection, protect at over load, over current and over voltage.
- c) Real time to monitor the test force, drift, curve and etc.
- d) Freely to print the test result for analysis purpose.
- e) Comparison of result: monitor several curves at one time, and can amplified the result for comparison.
- f) Connector: Equip with all kinds of sensor according to connector and software.
- g) Sampling interval: user can freely select the sampling interval.

4. Configuration

- a) Mainframe: oil cylinder underneath type
- b) Servo control oil expenses source: electro-hydraulic servo valve, Nachi high-pressure gear pump
- c) STC300 double channel programmable amplifier with resolution of 1/300000
- d) High accuracy load sensor
- e) Extensometer
- f) Guyed displacement measurement system
- g) Clamps: stretch, compress, bend
- h) Smarttest control software
- l) Lenovo Computer
- j) HP A4 ink-jet printer