



Computer Screen Display Hydraulic UTM Product Specification

Model: IN-2000EY (200T)

Purpose:

Computer screen displayhydraulic UTM mainly adopts four-standard columnmain machine of underneath-type oil cylinder, used for tensile, compression, bending and shearing test for metal and non-metal materials. It applies to various fields including metallurgy, construction, light industry, aviation, aerospace, material, institutions of higher education and scientific institutions, etc.

Its test operation and data process meet requirements of standard GB228-2002

“Material in room temperature: test method of metal tensile”.

Specification:

Model	IN-2000EY
Capacity	2000KN (200T)
Testing force effective range	40KN~2000KN
Forceaccuracy	±1%
Deformation measurement	Gauge length of standard configuration is 50mm, maximum deformation is 10mm
Deformation testing accuracy	±0.5%
Max moving speed of piston	60mm/min.
Displacementmeasurement resolution	0.01mm
The Max tensilepace	1000mm
The Max compression pace	900mm
Flat sample clamping thickness	0~60mm
Flat sample clamping width	100mm
Clamping diameter of Round specimen(mm)	φ15~φ70
Compression plate	204mmX204mm
Support roller space of bending test	450mm
Width of support roller	160mm
Piston stroke	250mm
Diameter of pivot	50mm
Clamping way	Hydraulic clamping
Amplifier	Programmable amplifier plug-in mounted insidethe PC,automatic zero setting and calibrating
Dimension(mm)	Machine: 1400x850x3300; Oil source: 1140x700x930
Weight	About 7500kg
Power supply	Three phases AC380V50Hzor specified by user

Description Schemes:

1、 The main machine

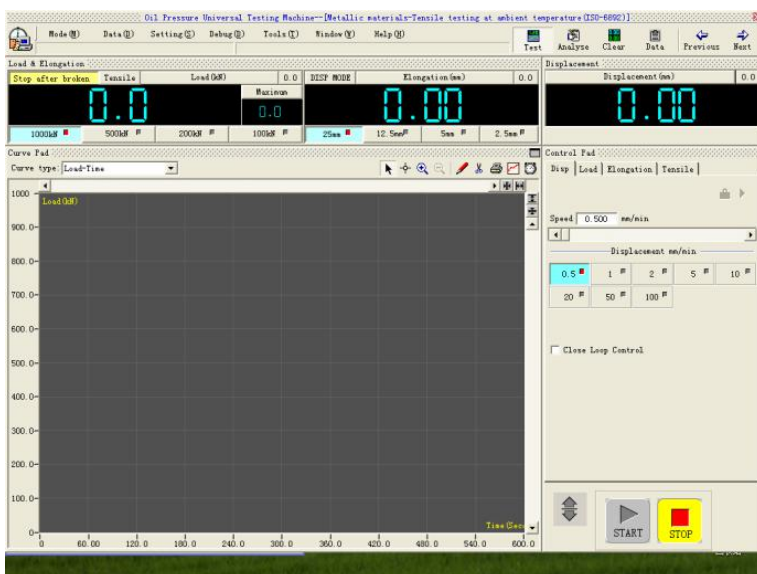
- 1) The main machine adopts underneath type of oil cylinder, tensile space is above the main machine, compression and bending space is between the lower cross beam and working station.
- 2) Solid four-standard column and two-lead screw structure design, so the whole machine has strong stability.
- 3) Movable cross-beam is designed with unique clearance elimination mechanism, avoiding test error caused by cross-beam stress of B type machine.
- 4) There designs a sliding plate of 10mm between jaw and jaw splint, effectively extending service life of jaw splint.
- 5) Test space can be divided into three segments for adjustment according to length of specimen, the highest point is suitable for the use of peripheral equipment like high temperature furnace.

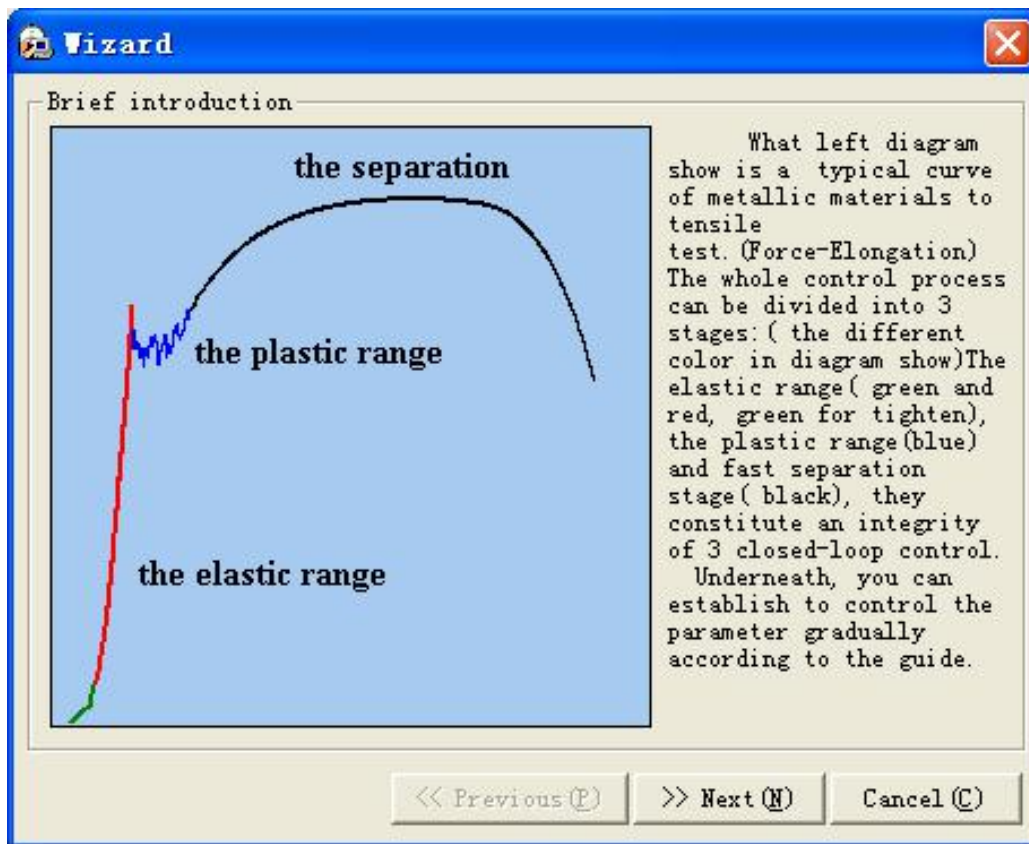
2、 Drive system

Lower cross beam lifting adopts hydraulic motor, chain, and lead screw pair drive to realize adjustment of tensile and compression space. No matter in the state of adjusting space or in the test process, it both reaches operation if zero clearance.

Screen display software:

It conforms to more than 30 relevant regulations of national standards, like GB228-2002、GB228-2010.





1. Computer control system: it has advantages of high integration level, stable performance and convenient adjustment. Can carry out real-time collection for test data and real-time dynamic display for test characteristics curve; test data file can be saved by the method of Access common database or SQLserve large database, which is convenient for achieving users' resource sharing and network management, and reanalysis.

This software have an easy access to various word2000 reports users defined, solving the problem that different users or one same user has different requirements for the reports in different times, and it can deal with original data of test force, displacement and time and their derived curves.

2. Batch test can realize classified display for curve, and curve follows automatically.

3. Monitoring test process: can realize real-time display for various parameters like test force, displacement and curves in the test.

4. Hierarchical management function for software permissions: to improve safety of software and data, this software can realize hierarchical management function by setting different passwords protection.

5. Result representation function: after finishing and saving test, users can open it at any time in the future and reanalyze test data according to need.

6. Result contrast function: can observe various test curve at the same time, and can realize Characteristics contrast of specimen to be analyzed by superposition and fractionated gain of

various curves.

7. Force interface: force channel interface and test software can equip all kinds of sensors according to users' need, and can conduct mark, parameters modification and normal test.

Basic configuration of system:

1. Main machine of tester (Main machine adopts underneath type of oil cylinder)
2. Integrated oil source
 - 2.1 High-pressure pump
3. Two-path programmable amplifier, resolution is 1/300,000
4. High-precision load cell
5. Gued displacement measurement system
6. Full set attachment grips include: tensile fixture & compression fixture & bending fixture
7. Dedicated control software
8. Lenovo computer
9. HP A4 ink-jet printer
10. Technical data: Operation manual