

TestPilot UTM

- > echoTestPilot is designed to perform accurate and repeatable tests of materials, components and finished goods across a wide range of applications. It provides a simple and user-friendly interface needed for fast and efficient quality assurance and quality control testing. The software is fully compatible with echoLAB electromechanical and hydraulic Universal Testing Machines.
- > Features a large, growing host of pre-packaged test methods for easy access to meet the requirements of global test standards such as ASTM, ISO, DIN, EN, BS, and more.
- > echoTestPilot software is an open architecture programming; the operator can design the testing program according to own testing requirements.
- > Operator can edit the format of testing report according to the requirement, and also export to EXCEL, ACCESS files.

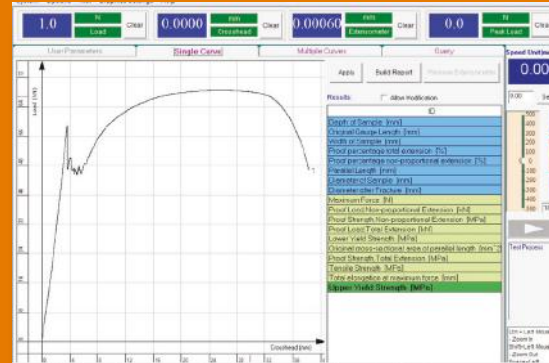
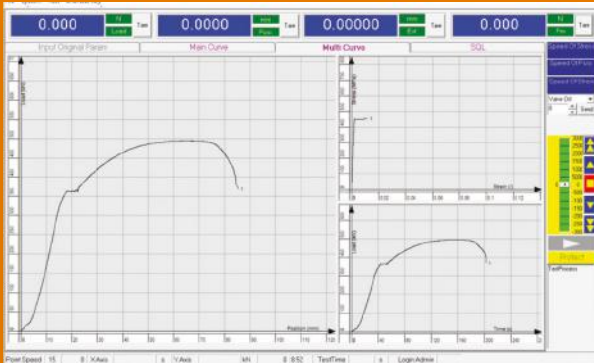
- > **Management System:** The administrator can activate the functions according to different operators.

User name	Pass	Govern	Units	Hardware	Calib	View	Uninstall	Director	Jul	Cal	Stende	Rounding	M	Message	Un	Report	Preview
Administrator	Y	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y
Operator	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	Y

- > **Data logger communication function,** which can collect the data from logger, such as dial gage, percent meter, etc.; it also reserves additional 6 channels for machine expansion, which can conduct the real time data collection, data displaying and data processing.
- > **Advanced function of data retrieval:** searching by any information of the testing results, like testing date, series number, testing program, etc.
- > **The software displays curves/graphs of Load - Displacement, Load - Time, Load - Extension and Displacement - Time.**

- > echoTestPilot allows to mark interesting points on curves, zoom in and zoom out and curves traversing. During the test, curves can be displayed separately in a screen; after the test, the operator can manually define the upper yield point, lower yield point by determining the parameters.
- > Operator can choose different data unit according to the requirements, the software can convert the unit of testing data and results accordingly.
- > Analysis give typical test results like Young's modulus, Proof stress, Yield stress, Stress, Strain, Tensile strength, Elongation at break, Compressive strength, Bending strength and more.

Standard name	Standard Description
ASTM D 790-2003	Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
ASTM E 299-1997a	Metallic materials-Bend test
ISO 7439-1995	Metallic materials-Bend test
ISO 7439-1995E	Metallic materials-Bend test
ASTM E23-1998	Metallic materials-bending testing
DIN 16902-1-2001	Metallic materials-Tensile testing at ambient temperature
ISO 6892-1998	Metallic materials-Tensile testing at ambient temperature
ISO 684-2002(E)	Plastics-Determination of compressive properties
ISO 178-1993	Plastics-Determination of flexural properties
ISO 527-1-1996	Plastics-Determination of tensile properties
ISO 37-1994	Rubber,vulcanized or thermoplastic-Determination of tensile stress-strain properties
ASTM D695-1996	Standard Test Method for Compressive Properties of Rigid Plastics
ASTM D638-2003	Standard Test Method for Tensile Properties of Plastics
EN 10002-2:2003	Standard Test Methods for Tensile Testing of Metallic Materials



Basic Parameter Ctrl Mode Original Param Result Param Curve Yield Method

Select project name: [Metallic materials-Tensile testing-round with EX-TJ(S)0693] Delete

Select standard: [ISO 6892:1998] Metallic materials-Tensile testing

Test Type: [Normal] Normal

Test direction: Tension Compression Start condition: Preload [2000] N

Shape: Tensile/Compress/Bend/Cut Round Rectangle Square Pipe Abnormally Ignore(sec of pipe)

Specimen protect: Active Sampling setup: Discontinuous sampling Interval: [0]

Valve opening control: Active Initial valve: [2000]

Auto Test: Auto Test Time(s): [0.6]

Shift point of extensometer: Active shift point of extensometer: [1.2] mm Pause

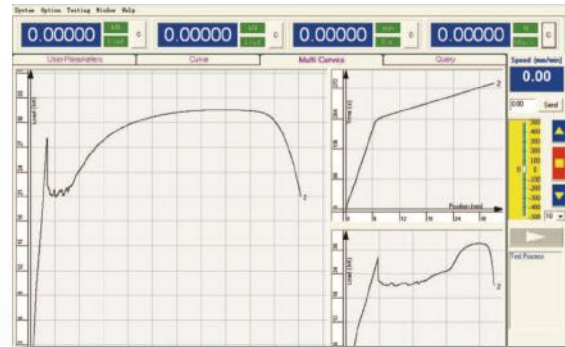
Stop Condition: Load(N) [2000] Extension(mm) [10] Position(mm) [500] Overload(%) [0] Force drop rate(1/s) [60] Load(Negative) [0] Extension(Negative) [20] Position(Negative) [0] Value(Negative) [50]

Auto return to initial position: Return Speed(mm/min): [0]

Sample Number: Auto Designate [1]

Backup data in real time: Active Interval(interval): [0]

Save/Exit PID Setting Save Exit



Print report Export report to excel Exit preview Curve type Apply change Cancel change

Metallic materials-Tensile Testing Report

Test standard: ISO 6892:1998 Data rounding method: []

Control mode: Standard metal tensile

Speed of testing: 1.0Stress Control 100MP/s 2.0Stress Control 0.001/s 3.Poisson Control 20mm/min

Original gauge length: 50 mm Extensometer gauge length: 50 mm First gauge length: 85.3 mm

Choose sample number: []

No.	Maximum Force	Tensile strength	Percentage elongation after fracture	Lower yield strength	Upper yield strength	Modulus of elasticity
	MPa	MPa	%	MPa	MPa	MPa
No. 1	21.12		51.60			

Change curve height and width

Change curve coordinate scale

Report preview Curve compare mode

Computer requirements

- > CPU: ≥1GHz
- > Memory: ≥1GB
- > Hard disk storage: ≥10GB
- > CD-ROM drive: Only for software installation.
- > Graphic card: ≥1GB memory
- > Port: At least one COM port for communication.
- > If some accessories require RS232 communication with computer directly, more COM ports will be necessary.
- > Operating system: Microsoft Windows 7 or the latest.