

LD-2KN Computerized Universal Testing Machine

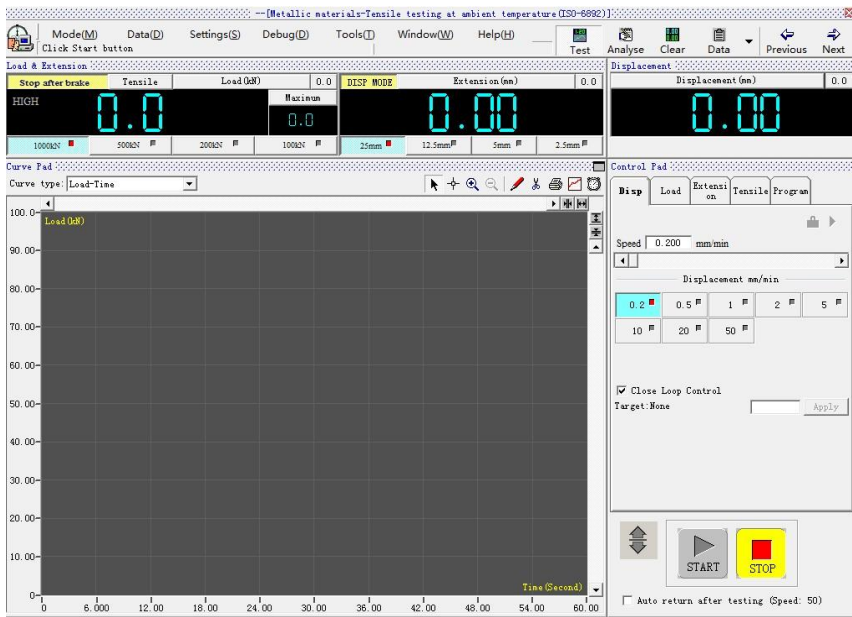
LD-2KN Tensile Testing Machine is applicable in testing the rubber ,plastic film ,cable , fabric , paper ,aluminum board and so on . It is ideal for high-capacity tension, compression, bend/flex, and shear testing, these machines are guaranteed to meet the relative requirements of ISO, ASTM, JIN, GB and many other testing standards.

Product features :

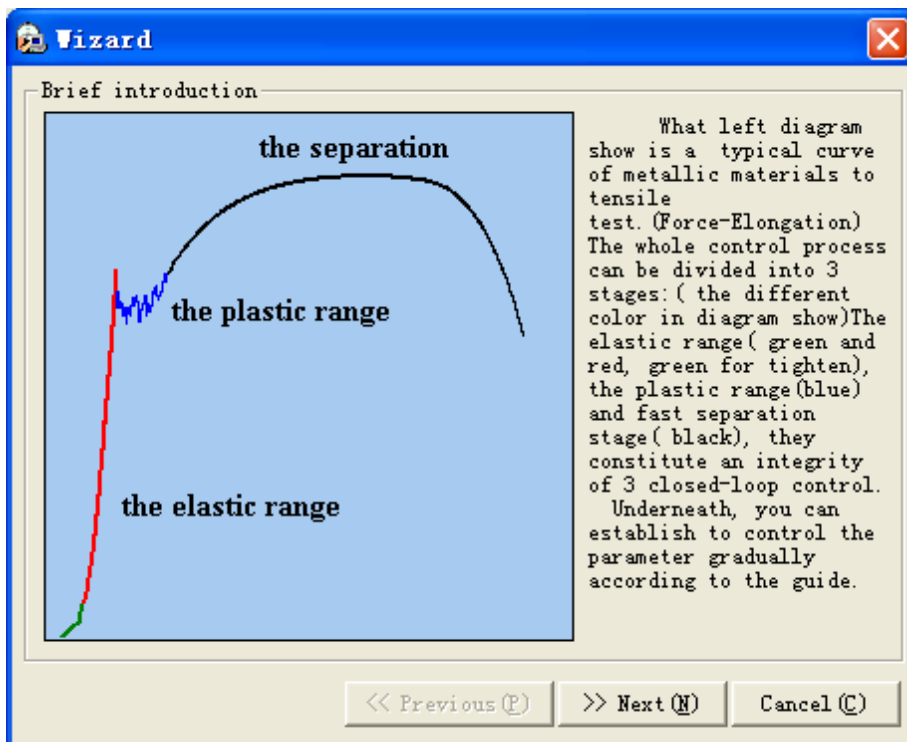
1. Control card adopts advanced neural adaptive PID control algorithm, and truly realizes three closed-loop digital control.
2. Data acquisition system consists of or channels high precision A/D conversion channel. The maximum resolution of 1/300000. There is no subsection of all process, meanwhile it can have 4 subsections or no subsections according to customers' requirement.
3. Select BB, AD and Xilinx original brand integrated devices and digital design.
4. Built-in large scale CPLD programmable device with high-speed computation capability and real-time processing digital signal.
5. Integrated dual roads precision instrument programmable amplifier, digital zero and automatic smooth shifting.
6. Select high quality imported servo valve block, all control signals photoelectric isolation, 24V DC and safe and reliable.
7. The professional software runs on Windows98/2000/XP operating system, the testing machine can process test result and then output test report and the characteristic curve design.
8. Real-time record and dynamic display test curve, select the point and detail analysis.
9. With accuracy and perfect data analysis function, utilizing man-machine interactive mode to analyze and calculate mechanical performance of materials, and automatically calculate max force, elongation, tensile strength, elasticity modulus, yield strength, non-proportional extension stress..etc.
10. Adopts human-computer interaction to analyze and count performance indicators of materials. It has both automatic and manual modes.
11. With the protective function of overload, over current, over voltage, displacement upper and lower limitation and emergency stop.



Main Interface



The wizard would lead you configuring parameter step by step, directly according the show of the window of each step.



Create Testing Information

New

specimen information

input a batch of specimens

SampleID

sam

TestDate

2006-5-8

Operator

wyt

Type

Circle

Size (mm)

10

So (mm^2)

78.54

Lo (mm)

50

Lu (mm)

A (%)

Su (mm^2)

Z (%)

Fm (kN)

Rm (MPa)

templet

modell

Save (S)...

Delete (D)

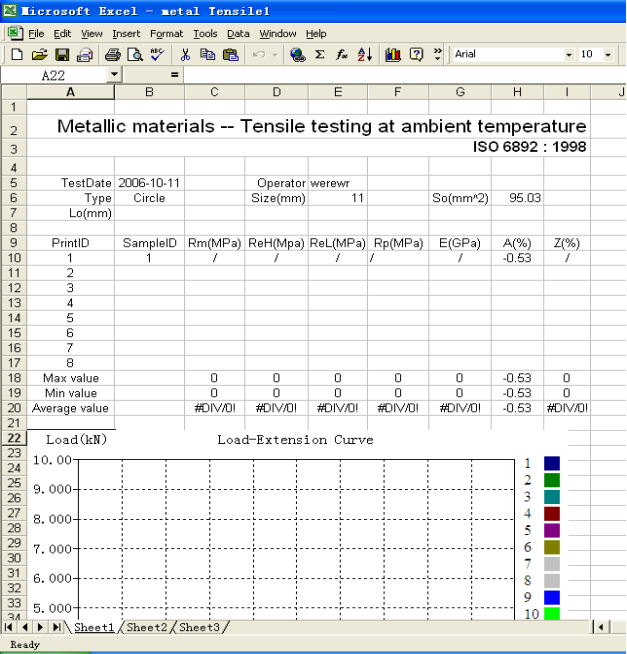
OK

Cancel

Multi Standards can be selected

Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pul-Meter Method1(ASTM C1229-05)
Standard Test Method for Compressive Strength of Hydraulic Cement Mortars(Using 2-in. or [50-mm] Cube Specimens)(ASTM C109/C109M-05)
Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars1(ASTM C348-02)
Standard Test Method for Lap Shear Strength of Hot-Applied Sealants1(ASTM C961-97)
Rubber O-rings(ASTM D1414-94(Re.2003))
Straight from O-ring(ASTM D 1414-94(Re.2003))
Standard Test Method for CBR (California Bearing Ratio) of Laboratory-Compacted Soils1(ASTM D1883-07)
Standard Test Method for Static and Kinetic Coefficients of Friction of Plastic Film and Sheeting(ASTM D 1849-08)
Standard Test Method for Unconfined Compressive Strength of Cohesive Soil1(ASTM D2166-00)
Dumbbell-Tension(ASTM D 412-06a)
Straight(General)-Tension(ASTM D 412-06a)
Straight(Standard)-Tension(ASTM D412-06a)
ASTM Cut Rings-Tension(ASTM D 412-06a)
Tear Strength(ASTM D 624-06)
Standard Test Method for Shear Strength of Plastics by Punch Tool(ASTM D132-2002)
Metallic materials-3-Points Bend testing
Metallic materials-4-Points Bend testing
Footwear and footwear materials bond peeling strength(ISO131:1978)
Tensile Test(ISO EN 10002)
Standard Test Method for Battery Compression
Metallic materials-Compression testing
Concrete-Compressive strength(EN206-1:2000)
Standard Test Method for Peel Resistance of Adhesives (T-Peel Test)(D1876-2001)
Standard Test Method for Measuring Strength and Shear Modulus of Nonrigid Adhesives by the Thick-Adherent Tensile-Lap Specimen(D3983-1998)
Standard Test Method for Compressive Properties of Rigid Plastics(D695-02a)
Standard Test Method for Tensile Properties of Thin Plastic Sheeting(D682-2002)
Standard Test Methods for Tire Cords, Tire Cord Fabrics, and Industrial Filament Yarns Made from Manufactured Organic-Base Fibers(D 885-03)
Debug
Standard Test Method for Poisson Ratio at Room Temperature1(E1132-04)
Testing method for adhesion for fusible interlinings (FZT 01085-2009)
Metallic materials shear testing
ISO12004-61
Plastic-Determination of Flexural properties(ISO EN ISO 178:2003)
Plastics--Tensile Properties(ISO527)
Metallic materials-Tensile testing at ambient temperature(ISO6892)
Bonding strength testing(GB/T17657-1993)
Metallic materials-Sheet and strip-Determination of tensile strain hardening exponent(ISO 10275)
Metallic materials-Sheet and strip-Determination of plastic strain ratio(ISO 18113)
n _r Value(ISO 10275 ISO 10113)
Standard Test Method for linear-Elastic Flame-Strain Fracture Toughness K _{IC} of Metallic Materials(Standard SE(B)(shown) and Arc-Shaped A(B)(not shown) Bend Specimens(E399-05)
Standard Test Method for linear-Elastic Flame-Strain Fracture Toughness K _{IC} of Metallic Materials(Arc-Shaped Bend A(B) Specimen)(E399-05)
Standard Test Method for linear-Elastic Flame-Strain Fracture Toughness K _{IC} of Metallic Materials(Compact C(T) Specimen)(E399-05)
Standard Test Method for Linear-Elastic Plane-Strain Fracture Toughness K _{IC} of Metallic Materials(Arc-Shaped Tension A(T) Specimen)(E399-05)
Standard Test Method for linear-Elastic Flame-Strain Fracture Toughness K _{IC} of Metallic Materials(Disk-Shaped Compact DC(T) Specimen)(E399-05)
Shearing strength testing(IH/T D01-2002)
Bending strength testing(IH/T D01-2002)
Metallic materials-Tensile testing at ambient temperature(ISO-6892)

Customer design testing reports, the report can be output and edit in the word and excel.



Main Technical Parameter :

1. Load Cell: 2KN
2. Strength Precision : $\pm 1\%$ of the indicated load value,
3. Measurement range: 2%-100%
4. Strength Resolution : 1/300000
5. Precision of displacement : 0.001mm
6. Crosshead Speed : 1—500mm/min (Arbitrary Setting)
7. Crosshead return speed: 1000 mm/min
7. Unit: N-mm-Mpa, Lbs-Inch-Psi
7. Speed Accuracy : $\pm 1\%$ (0.01~10mm/min); $\pm 0.5\%$ (10~1000mm/min)
8. Accuracy of the consistent load deformation and displacement control:
preset value $\geq 10\%$ FS, within the $\pm 0.1\%$ of preset value;
preset value $< 10\%$ FS, within the $\pm 1\%$ of preset value
9. Valid Tension Distance (After install the grips): 1000 mm
10. Valid Compression Disstance (After install the grips): 1000mm:
10. Power : 220V, 50Hz, Single Phrase
11. Dimension : 450×270×1800mm
12. Weight : 150kgs