Hydraulic Universal Test Machine

LT-U0600 / LT-U1000 | Separate tensile and compression test areas

Hydraulic grips • BC 100 control • Computerised data and reports



600 / 1000 kN

TWO LOAD CAPACITIES

2-18 mm/min

TEST SPEED

EN ISO 15630-1 • EN ISO 6892-1 • EN ISO 7500-1

Photographs and Components

Column frame, upper compression area, hydraulic grips and control unit

The Hydraulic Universal Test Machine evaluates tensile and compression behaviour of metal specimens. Separate working areas and an independent hydraulic gripping system support specimen mounting. Digital control monitors and records test data.

COMPRESSION AREA

The upper working area accommodates specimen loading between compression platens.

HYDRAULIC GRIPS

Upper and lower tensile grips hold both ends of the specimen.



COLUMN FRAME

The rigid loading frame supports the working areas and moving parts.

CONTROL UNIT

Hydraulic power and touchscreen control support test management.



Hydraulic grips and tensile working area



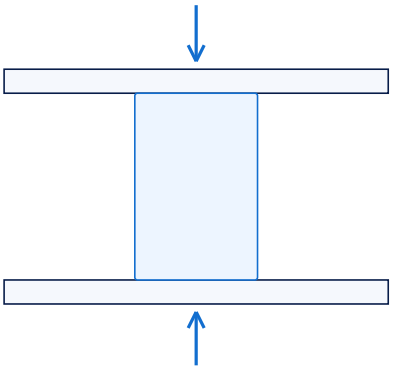
Touchscreen control panel

LT-U0600 / LT-U1000

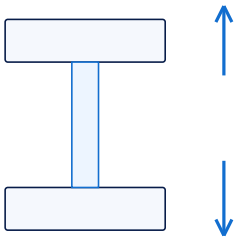
Tension, Compression and Data Monitoring

Separate working areas • Controlled gripping • Digital measurement and records

COMPRESSION AREA



TENSILE AREA



Hydraulic Gripping

Independent hydraulic grips hold the specimen. Select the grip set for its cross-section.

Controlled Testing

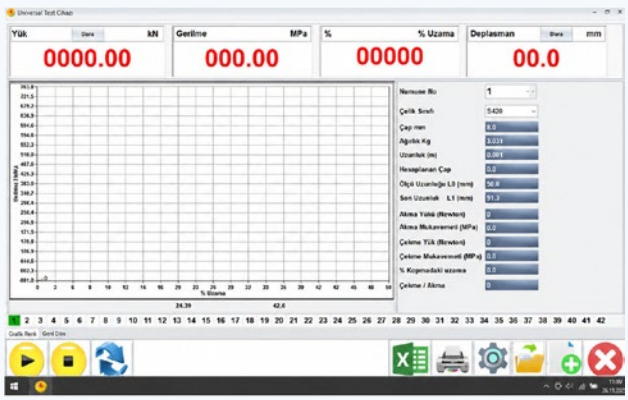
Select test speed within 2-18 mm/min for the method; monitor load and specimen behaviour.

Digital Records

Monitor graphs and results through BC 100. Internal memory stores up to 10,000 tests.

The displacement sensor monitors movement. A suitable extensometer can be connected for direct specimen extension measurement. Software supports test reports and export to Excel format.

PC Test Software



Test and Verification Standards

EN ISO 15630-1: Reinforcing steel tests.

EN ISO 6892-1: Tensile testing of metallic materials.

EN ISO 7500-1: Calibration and verification of the force-measuring system.

Model Options and Technical Data

LT-U0600 / LT-U1000 • Capacity, height, weight and control

Product Code	Capacity	Height (mm)	Weight
LT-U0600	600 kN	2600	1950 kg
LT-U1000	1000 kN	2600	2150 kg

Series Feature	Value / Function
Test Speed	2-18 mm/min
Load Reading Accuracy	±1%
Displacement Resolution	0.01 mm
Round Specimen Grip Range	Ø8-32 mm
Flat Specimen Option	Up to 40 mm
Control / Display	BC 100 touchscreen, 800 × 480 pixels
Internal Memory	Up to 10,000 tests
Live Graphs	Load-time, load-displacement, stress-time

Safety and Post-test Return

Emergency stop, movement limits and hydraulic safety valves are provided. The system can return automatically to its initial position after testing.

Test Workflow

01
Select Model
Choose capacity and grips for the specimen.

02
Mount Specimen
Align specimen and engage hydraulic grips.

03
Run Test
Select test speed; monitor measurements and graphs.

04
Record and Report
Store results, prepare reports or export to Excel.

Product Page | liyatest.com.tr/en/urun/universal-hydraulic-tensile-test-machine/