Manhole Cover Testing Machine

LT-U1100 | Automatic and programmable hydraulic loading

Four-column frame • Repeated loading • Constant load holding



1000 kN

MAXIMUM TEST CAPACITY

120 seconds

MAXIMUM CONSTANT LOAD HOLDING TIME

EN 1917 • EN 124-1 / EN 124-2 / EN 124-3 / EN 124-4 / EN 124-5 / EN 124-6

LT-U1100

Photographs and Components

Four-column frame, central loading area and automatic control unit

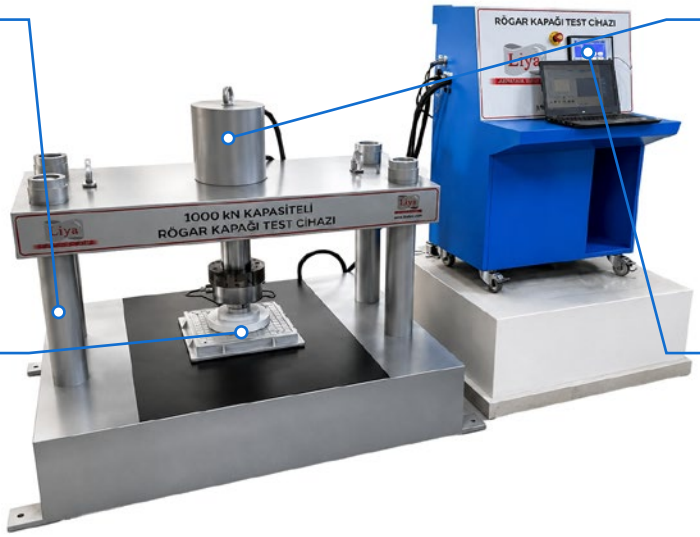
The Manhole Cover Testing Machine evaluates mechanical load resistance of concrete manhole covers and inspection chamber components. A rigid frame and automatic hydraulic system apply controlled force. Programmable tests support evaluation of specimen behaviour.

FOUR-COLUMN FRAME

The rigid frame maintains test geometry and specimen support under high loads.

CENTRAL LOADING

The hydraulic mechanism transfers load from the upper beam towards the specimen surface.



SPECIMEN AND LOADING AREA

The cover is positioned on the lower table and contacted by the loading head.

AUTOMATIC CONTROL UNIT

The power and control unit manages the programmed loading sequence.



Loading head, specimen and lower support table

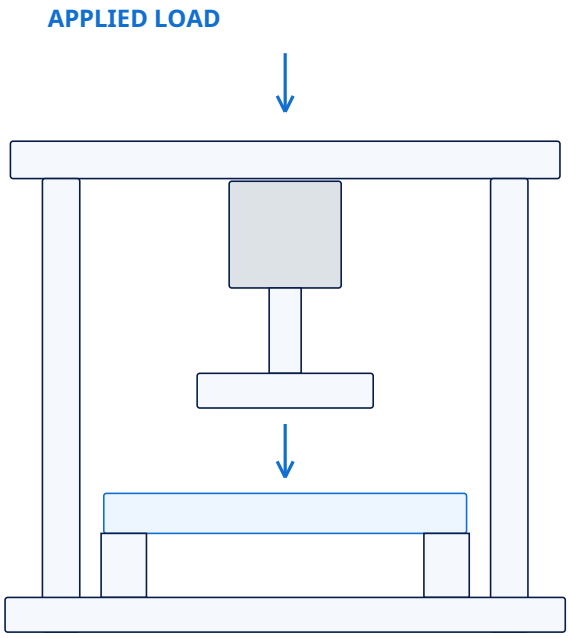


Control display and operating unit

LT-U1100

Force Transfer and Test Control

Central loading • Balanced contact • Rigid lower support



Controlled Initial Contact

The spring mechanism assists controlled contact between the loading system and specimen.

Balanced Force Transfer

The three-piston mechanism supports balanced force transfer to the test surface.

Programmable Testing

Select the loading cycle for the applicable method. Set load-holding and repetition conditions.

Align the specimen on a support suitable for the test method. The loading head establishes controlled contact and the hydraulic system applies the selected force. Capacity is 1000 kN; the test load is selected for the specimen type and applicable procedure.

Repeated Loading

The system can apply the required test load five times consecutively.

Consider repetition count and loading sequence together with the procedure for the specimen type.

Constant Load Holding

The control system can hold the selected load on the specimen for up to 120 seconds.

This stage supports observation of specimen behaviour and deformation under load.

LT-U1100

Technical Features and Operation

LT-U1100 • Capacity, frame, loading mechanism and test functions

Technical Feature	Value / Function
Product Code	LT-U1100
Maximum Test Capacity	1000 kN
Frame	Rigid four-column structure
Power / Control Unit	Two-stage automatic unit with BC 100 control
Loading	Automatic hydraulic, programmable cycles
Repeated Loading	Required load applied five times consecutively
Constant Load Holding	Up to 120 seconds
Mechanism / Initial Contact	Three-piston system / spring-assisted contact
Concrete Specimen Types	Plain, steel-fibre-reinforced and reinforced

Standard References

EN 1917 • EN 124-1 • EN 124-2 • EN 124-3 • EN 124-4 • EN 124-5 • EN 124-6. Select specimen and loading arrangements for the applicable test method.

Test Workflow

01
Select Method
Determine test load for the specimen type.

02
Align Specimen
Support the specimen and check initial contact.

03
Apply the Cycle
Set repetition and load-holding conditions.

04
Review Response
Evaluate specimen behaviour under load.

Product Page | liyatest.com.tr/en/urun/manhole-cover-testing-machine/