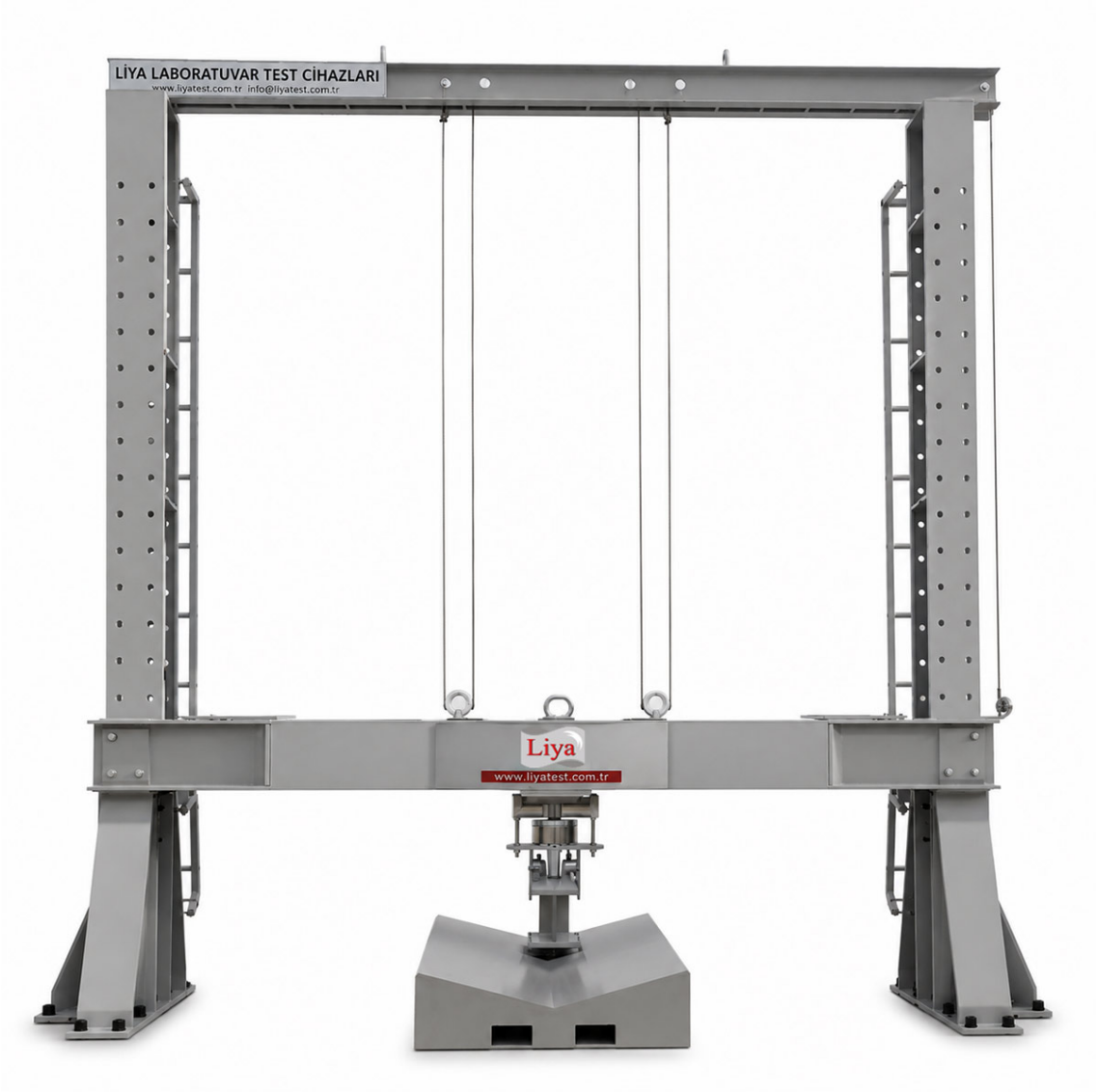
# Concrete Pipe Testing Machines

LT-U0660 / LT-U1100 | Load-controlled testing for EN 1916

Rigid loading frame • Automatic hydraulics • Digital data recording




## 600 / 1000 kN

**TWO LOAD CAPACITIES**

## 300 mm

**ACTUATOR STROKE**

Model-dependent 200-3700 mm outside diameter • 2000 / 3000 mm maximum length

# Photographs and Components

Actuator, upper loading support, lower bearing and hydraulic unit in a test setup

Concrete Pipe Testing Machines are used for crushing tests on sewer and drainage pipes. The rigid frame supports the specimen while the hydraulic system applies controlled load. A load cell and digital system allow test data to be monitored.

**LOADING ACTUATOR**

The double-acting actuator on the crosshead applies force toward the pipe.

**UPPER LOADING SUPPORT**

The upper support transfers the applied force to the crown of the pipe.




**HYDRAULIC / DIGITAL UNIT**

The power and readout unit supports loading and monitoring of test data.

**LOWER V SUPPORT**

The lower bearing supports the pipe in a stable position during the test.



Pipe, upper loading support and lower V bearing

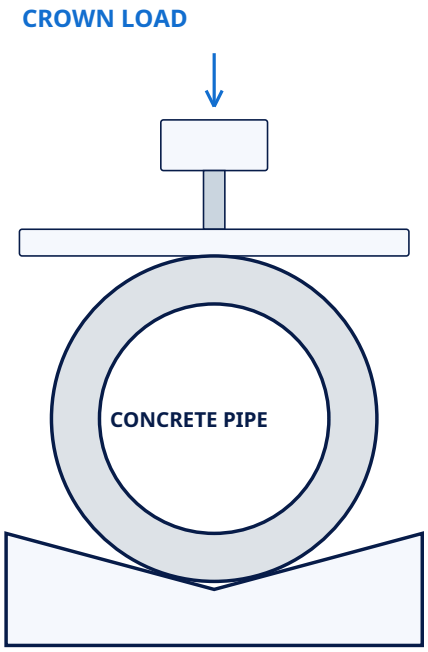



Hydraulic power unit with digital display

LT-U0660 / LT-U1100

# Crown Loading and Specimen Supports

Double-acting actuator • Upper loading line • 150° lower V bearing




## Controlled Load

The load cell monitors applied force. The hydraulic system controls the selected loading rate.

## Upper Support Alignment

The upper support allows ±8° movement in the vertical plane to accommodate minor alignment differences.

## Lower Bearing

The V support with a 150° internal angle supports stable pipe positioning and load transfer.

Select specimen diameter and length within the model working range. The 300 mm actuator stroke provides loading travel. Check specimen positioning and bearing contact before starting the test.

## Digital Monitoring and Reporting

Monitor instantaneous load, loading rate and the load-time graph on the display. PC software supports specimen and customer information, test recording and reports. Store test data together with specimen identification.

## EN 1916 Test Support

The series supports concrete pipe crushing tests within EN 1916. Select suitable supports, fixtures and test procedures to evaluate unreinforced, steel-fibre-reinforced and reinforced concrete pipes under load.

# Model Options and Technical Data

LT-U0660 / LT-U1100 • Capacity, pipe dimensions and hydraulic control

| Product Code | Capacity | Outside Dia. (mm) | Max. Length (mm) |
|---|---|---|---|
| **LT-U0660** | 600 kN | 200-2000 | 2000 |
| **LT-U1100** | 1000 kN | 200-3700 | 3000 |

| Series Feature | Value / Function |
|---|---|
| **Actuator / Stroke** | Double-acting, 300 mm |
| **Loading Rate** | 1-20 kN/s |
| **Pace-rate Control Accuracy** | Approximately ±5% |
| **Maximum Hydraulic Pressure** | 410 bar |
| **Lower Bearing Internal Angle** | 150°, V-shaped |
| **Upper Support Angular Movement** | ±8° in the vertical plane |
| **Hydraulic Pump** | Two-stage; rapid approach and loading |
| **Load Measurement** | Load cell, digital readout and graph |

## Safety and Test Monitoring

Emergency stop and maximum-pressure valve support the system. Monitor load, loading rate and specimen behaviour throughout the test.

## Test Workflow

**01**
**Select Model**
Check capacity, outside diameter and length range.

**02**
**Position Pipe**
Set the lower bearing and upper support contact.

**03**
**Apply Load**
Select loading rate and monitor load-time data.

**04**
**Record and Report**
Store results with specimen information.

**Product Page | liyatest.com.tr/en/urun/concrete-pipe-testing-machine/**