



## UNIVERSE FLOW TABLE AZA0791

The AZA0791 Flow Table is a standardized laboratory apparatus used to determine the workability and flow characteristics of fresh cement mortar and concrete mixes. It evaluates the consistency of material by measuring the spread of a sample subjected to controlled table drops.

This test is essential for ensuring proper placement, compaction, and performance of cementitious materials in construction applications.

### Key Features

- Standardized table for accurate flow measurement
- Manual cam-operated drop mechanism
- Controlled drop height for repeatable results
- Smooth, polished surface for uniform spreading
- Robust construction for laboratory and field use
- Portable and easy to operate (no power required)
- Corrosion-resistant and durable design

### Applications

- Cement and concrete testing laboratories
- Construction site quality control
- Precast and concrete product manufacturing
- Admixture and mix design evaluation
- Civil engineering research and education





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### Working Principle

The flow table determines workability by measuring the spread of a mortar or concrete sample:

- A sample is placed in a standard mould at the center of the table
- The mould is lifted vertically
- The table is dropped repeatedly using a lever mechanism
- The spread diameter of the sample is measured

The increase in spread indicates the flowability and consistency of the mix.

### Test Procedure Summary

1. Place flow mould at the center of the table
2. Fill with fresh mortar/concrete in layers
3. Lift the mould vertically
4. Drop the table typically 25 times
5. Measure the final spread diameter

### Standards & Compliance

- IS 1199:1959 – Methods of sampling and analysis of concrete
- ASTM C230/C230M – Flow table for hydraulic cement tests

### Performance & Benefits

- Quick Assessment: Rapid evaluation of workability
- Repeatability: Consistent and standardized results
- Non-destructive: Sample can be reused for further testing
- Field-Friendly: No electrical power required
- Versatility: Suitable for mortar and flowable concrete mixes



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### **Safety & Handling**

- Stable base ensures safe operation during repeated drops
- Smooth mechanical action reduces operator strain
- Easy cleaning after each test
- Corrosion-resistant surface for long service life

### **Operating Capability**

- Suitable for self-compacting and high-flow mixes
- Enables comparison of different mix designs
- Supports evaluation of admixture performance
- Ideal for both laboratory and on-site testing

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## TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0791
Table Diameter	762 mm (30 inches)
Table Material	Brass / Stainless Steel / Mild Steel
Drop Height	12.5 mm – 25 mm
Operating Mechanism	Manual lever-operated cam
Number of Drops	Typically 25 per test cycle
Mould Dimensions	100 mm height × 100 mm top × 200 mm bottom
Mould Material	Cast aluminum / steel
Surface Finish	Polished, rust-resistant
Standards Compliance	IS 1199:1959, ASTM C230/C230M