BALL RELEASE FOR IMPACT RESISTANCE TESTER AZA1295

The AZA LAB Ball Release for Impact Resistance Tester AZA1295 is a precision -engineered laboratory testing accessory designed for accurate, repeatable, and standardized impact resistance testing of materials using controlled ball drop methodology.

Developed for research laboratories, quality control departments, ceramic and tile manufacturers, plastics industries, packaging laboratories, and industrial testing facilities, the AZA1295 ensures highly consistent vertical impact delivery by eliminating operator variability during drop testing procedures.The system enables controlled release of calibrated impact balls from preset heights, allowing precise evaluation of impact resistance, puncture resistance, breakage behavior, surface durability, and coefficient of restitution (COR) of various materials under sudden mechanical stress.

TEST METHODS & COMPLIANCE

The AZA1295 supports internationally recognized impact resistance testing standards, including:

- ASTM D5420
- ISO 6603-2
- EN ISO 10545-5
- IS 13630 (Part-14)

PRECISION RELEASE MECHANISM

The advanced release mechanism incorporates:

- Electromagnetic ball holding system
- Precision guide tube
- Controlled release timing
- Center-aligned drop positioning
- Consistent impact trajectory

DIGITAL COR CALCULATION SYSTEM

The integrated digital indicator automatically calculates the coefficient of restitution (COR) in real time.

Features include:

- Backlit digital display
- Automatic rebound calculation
- High-accuracy measurement
- Simplified operator workflow
- Improved repeatability

This is especially useful for ceramic tile impact resistance testing according to EN ISO 10545-5.

CONSTRUCTION FEATURES

- Stainless-steel and hardened aluminum structure
- Rigid impact frame design
- Stable tile holding arrangement
- Concrete block support system
- Corrosion-resistant components
- Low-vibration operation
- Heavy-duty laboratory construction

The rigid construction prevents unwanted movement during testing and ensures highly repeatable impact conditions.

Technical Specifications

PARAMETER	SPECIFICATION
Model	AZA1295
Product Type	Ball Release for Impact Resistance Tester
Release Mechanism	Manual Trigger / Electromagnetic Release
Construction Material	Stainless Steel & Hardened Aluminum
Compatible Ball Sizes	10 mm to 50 mm
Standard Ball	Chrome-Plated Steel Ball Ø 19 mm
Ball Materials	Steel, Rubber, Tungsten Carbide
Drop Height Range	Adjustable up to 2000 mm
Mounting Compatibility	Universal Vertical & Custom Frames
COR Calculation	Automatic Real-Time Calculation
User Interface	Digital Indicator with Backlit Display
Tile Mold Size	75 mm × 75 mm
Support Structure	Rigid Concrete Block with Tile Holder

Technical Specifications

PARAMETER	SPECIFICATION
Compliance Standards	ASTM D5420, ISO 6603-2, EN ISO 10545-5, IS 13630 (Part-14)
Calibration Interval	Every 6–12 Months or 500 Test Cycles
Operating Environment	Laboratory & Industrial QA/QC

SAFETY & OPERATIONAL ADVANTAGES

- Eliminates operator variability
- Ensures repeatable impact testing
- Stable and controlled ball release
- Reduced testing errors
- Safe impact testing operation
- Long-life mechanical design
- Low maintenance requirements
- Suitable for continuous laboratory use