

Chair Durability & Drop Impact Test Machine



The Chair Testing Machine is designed to evaluate the durability, strength, and performance of chair seating systems under dynamic and static loads. It complies with BIFMA X5.1-2002 standards (Test No. 8 & 11) and is suitable for testing all types of chairs including office, dining, and institutional seating.

Key Features

- Programmable cycles up to 999,999 with memory and output control
- Two-station testing for higher productivity
- Dynamic impact and cyclic durability testing
- User-friendly touchscreen interface with real-time LCD monitoring
- USB data logging and export for traceability
- Adjustable platform (500–1000 mm) for multiple chair sizes
- Multi-angle and multi-position clamping fixtures
- High accuracy ($\pm 1\%$) with fast response time (< 1 sec)
- Emergency stop, overload protection, and lockout safety system
- Robust powder-coated structure for long life

Technical Specifications

- **Model:** HD-F736
- **Counter:** 0–999,999 (memory & output control)
- **Impact Bag:** 16 inch, 125 pounds standard sandbag
- **Static Pressure Mould:** 8 inch, 165 pounds briquetting
- **Impact Speed:** 10–30 times/min (or specified)
- **Static Pressure Speed:** 10–30 times/min (or specified)
- **Cylinder Stroke:** 0–300 mm
- **Rail Height:** 90–135 cm
- **Machine Size:** 270 × 85 × 80 cm
- **Power Supply:** AC 220V, 3A
- **BIFMA Requirement:** 100,000 impacts + 20,000 static pressure (left) + 20,000 (right)

Applications

- Furniture manufacturing quality control
- Product development and R&D; testing
- Third-party testing laboratories

- Certification and compliance testing centers

FAQs

- **How does it operate?** Fully automatic programmable cycles with touchscreen control and USB data export.
- **What chairs can it test?** Chairs up to 1.2 m height and 200 kg weight with adjustable fixtures.
- **Where is it installed?** Floor-mounted in labs or QC areas; requires 220V AC supply.
- **Is it safe?** Yes, with emergency stop, overload protection, and lockout mechanisms.

For more details, customization, or quotation, please contact us.