

Mattress Durability Testing Machine

This equipment includes frames, a height adjustment mechanism, and pneumatic systems. It uses a loading module to repeatedly load the bed to assess its durability, with the process controlled by a PLC.



Overview

Professional Mattress Durability Testing

This specialized testing instrument is engineered to evaluate the long-term structural integrity and performance of mattresses. By simulating real-world usage conditions through repetitive loading, the machine provides critical data on firmness retention, compression resistance, and overall lifespan. It is an essential tool for quality assurance, enabling precise control over force, frequency, and duration to ensure consistent comfort and support standards.

Technical Capabilities

Testing Parameters

1 Repetitive

Load Application

1 Included

Deformation Analysis

1 Included

Recovery Characteristics

Primary Function

Long-term repeatability load capacity testing

Features

Testing Applications

- Firmness retention analysis
- Compression resistance testing
- Overall lifespan assessment
- Structural integrity evaluation

Control System

Programmable, Precision Force Regulation, Data Acquisition