Sponge Foam Compression Testing Machine

The Sponge Foam Compression Testing Machine is designed to evaluate fatigue, compression strength, and residual deformation of foam and polymeric materials. It helps determine dynamic fatigue properties and ensures product quality in manufacturing and research applications.

Technical Parameters

1. Head Speed: 100 mm/min
2. Indentation Hardness Range: 0–2000 N
3. Force Resolution: 0.25 N
4. Measurement Accuracy: ±1%
5. Deformation Precision: 0.25 mm
6. Loading Capacity: 0–2000 N adjustable
7. Table Size: 600 × 600 × 300 mm
8. Head Size: 0.0314 m²
9. Stroke: Up to 200 mm
10. Power Supply: 220V, 500W
11. Ambient Conditions: Room temperature, ≤80% humidity

Main Components

1. PLC: Huichuan
2. Touch Screen: KunLun
3. Servo Motor: Panasonic / Taiwan Auban
4. Electrical Components: OMRON
5. Sensor: Made in China
6. Reducer: Taiwan Brand

Key Features

1. High-precision S-type load cell
2. Digital microprocessor-based control
3. Real-time display with ±1% accuracy
4. Programmable interface with easy operation
5. Data storage and printable reports
6. USB/RS232 data export

Applications

1. Foam and sponge manufacturing
2. Quality control laboratories
3. R&D; and material testing centers
4. Export and industrial testing facilities