



GREAT SAFE

Safe Smart Sustainable

Dynamic Foam Testing System

GS-MEC-F03Ultra



Equipment Description

This equipment is an all-in-one machine that can do both hardness test, fatigue test, and integrated test in accordance with ASTM D3574, ISO 2439, ISO 3385, AS2282.8 standards. It simulates the repeated application of loads and /or movement of components occurring during long-time use and assessing the changes of the foams caused by repeated loadings. The dual-column system with drive system of servo electric actuator and roller screw-based linear actuator, capable of speeds up to 508mm per minute.

	Foam Test Standard	GS-MEC-F03Ultra
Hardness Test	ASTM D3574 Test B1	√
	ASTM D3574 Test B2	√
	ASTM D3574 Test C	√
	ISO 2439 Method A	√
	ISO 2439 Method B	√
	ISO 2439 Method C	√
	ISO 2439 Method D	√
	AS 2282.8	√
Fatigue Test	ASTM D3574 Test I3	√
	ASTM D3574 Test I5	√
	ISO 3385	√



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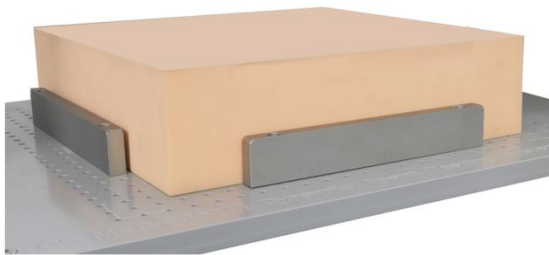
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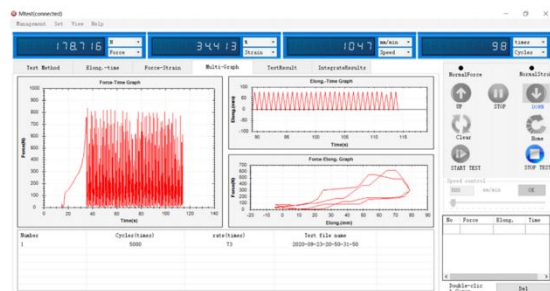
Equipment Advantages

- This whole test procedure is fully automated. Our special design of integrated test procedure “Initial IFD →fatigue→IFD” no need to manually select the test item at the middle of test.
- Unique drive system by servo electric actuator and roller screw-based linear actuator, keeping a stable, smooth, and quiet operation.
- The test report can be export by USB.



- Adopts four aluminum blocks around foam specimen to keep it in the correct test area during the continuous fatigue test.

- Real-time data and curve display is for customer monitoring the sample’s status better.



Flat Circular Indenter



25% IFD Test Process

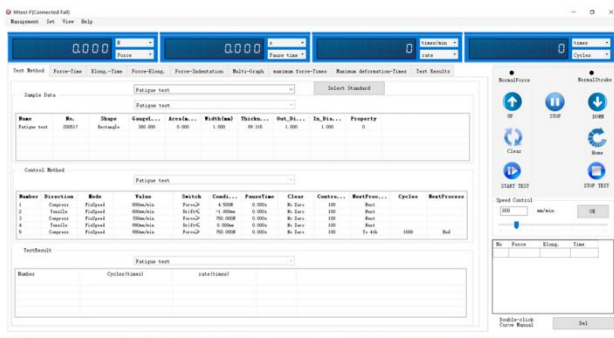


Equipment Software

GS Analysis foam testing software is a multi-functional software package that supports all industry standards including ASTM, ISO, AS specifications. This software is windows based and integrated with Microsoft Excel for data manipulation/graphical representation/ test reporting and Access for data storage.

Enhanced Graphics

- Multiple result/graphs test sheets
- Real-time graphs
- Testing results using industry standard calculation



Additional Features

- Pre-defined industry standard test methods available
- Ability to create and store unlimited number of test methods

- Graphical representation of all stored calculations. Operates under Windows 7, 10, 11.

Equipment Software Data

Description	Specification
Integrated Testing Procedure	Initial IFD Testing > Fatigue Testing > IFD Testing After Fatigue
Test Methods	11 types
Force Unit	N, KN, gf, kgf, lbf
Control System	Brand Laptop + Control Box
Language	English or Chinese
Test report	Graph and Data display



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Equipment Technical Data

Description	Specification
Sensor	200kg
Max Force Capacity	120Kg
Maximum Speed (mm/sec)	250 mm/s
Actuator Stroke (mm)	300 mm
Position Resolution (mm)	±0.01mm
Flat Circular Indenter Diameter	Φ203mm (hardness indenter) Φ250mm (fatigue indenter)
Level Horizontal Plate	6mm hole, 20mm centers distance
Machine Dimension(L*W*H)	780*620*1530mm
Gross Wight	85Kg
Maximum Power (VA)	400W
Single Phase Voltage (VAC , Hz)	110/220V option

**GREAT SAFE
APPARATUS TESTING**



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