

Dynamic Mechanical Analyzer



Easy to use, even for beginners

- Simple Clamping Mechanism
- Easy Measure Navigation software guides even first time operator

Wide variety of Measurement Features

- Dynamic Measurement, Sinusoidal oscillation and syntetic wave oscillation mode
- Static Measurements, Stress-Strain, Creep/ Recovery and StressRelaxation
- Simultaneously measure Temperature and Frequency Dispersion measurement

Powerful Auto LN₂ Gas Cooling Unit

- Enhance cooling efficiency by 30%

Vararity of Deformation Modes



Tension



Dual Cantilever Bending



Shear



Compression



Three Point Bending

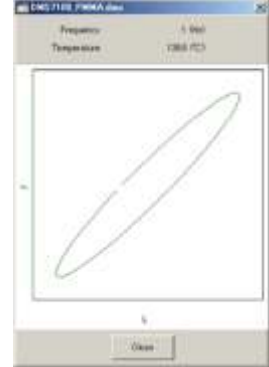
TA 7000 SERIES DMA 7100

Dynamic Mechanical Analyzer

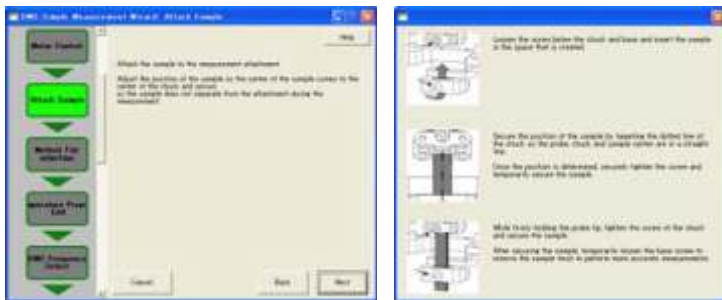


Lissajous Monitor

The DMS 7100 is equipped with a Lissajous monitor for observing the relationship between stress and strain of the sample under measurement. The deformation of a sample can be verified in real time at every measurement point. The deformation can also be verified after the measurement by viewing the saved data in a Lissajous graph, thus supporting high reliability of data acquisition.

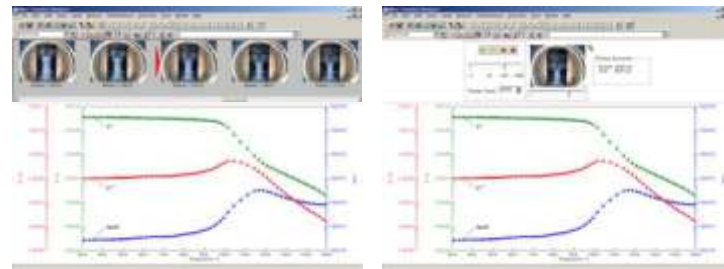


Simple Measurement Wizard



Even the first time user can simply and confidently operate with the Easy Measure Navigation software via its easy to follow illustrations. The software guides you through every step from condition setting to measurement.

Sample Observation System



Thumbnail View

Slide Show

Sample observation system displays and saves all the sample alterations by continuous imaging. After the measurement, the saved image can be loaded, linked to temperature and each signal, displayed in a blink*, and analysed.

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Model name	DMA 7100					
Deformation mode	Tension	Dual-Cantilever Bending	Shear	Film Shear	3-Point Bending	Compression
Measurement modes	Dynamic Measurements : Sinusoidal wave oscillation mode / Synthesis wave oscillation mode Static Measurements : Program stress control / Program strain control					
Frequency	Sinusoidal wave oscillation : 0.01 to 200 Hz, maximum 20 frequencies Synthesis wave oscillation mode : 5 frequencies					
Force range	Dynamic force: ± 10 N / Static force : ± 10 N					
Measurment. range *1Hz	5 to 10^{12} Pa	10^5 to 10^{12} Pa	10^5 to 10^{12} Pa	10^3 to 10^9 Pa	10^4 to 10^{10} Pa	10^5 to 10^9 Pa
Temperature range:	-150 to 600°C					
Temperatur	0.01 to 20°C/min					
Gas purge control	300 ml/min (a gas flow controller is buid in to the main unit as standard)					
Cooling unit	Auto Ln2 Gas Control Unit: -150to 600°C / Auto Air Cooling Unit: Ambient to 600°C □					
Dimensions	420(w)630(D) □ 725(H) mm					

* optional

Hitachi High-Tech Science Corporation

Head Office Sales Division
24-14, Nishi-shimbashi, 1-chome, Minato-ku Tokyo 105-001, Japan
Telephone: +81-3-6280-0062

<http://www.hitachi-hitec-science.com/>

Thermal Analysis & Surface Solutions
Pfungstweide 21 61169 Friedberg Germany
Telefon: +49-6031-1622-321
Internet: www.thass.net
E-Mail: info@thass.net