# DMA 242 E *Artemis*

## Dynamic Mechanical Analyzer

### **The Most Versatile DMA in the World**

The new DMA 242 E *Artemis* combines ease of handling with the user-friendly *Proteus*® measurement and evaluation software. This makes it fast and easy to characterize the dynamic mechanical properties as a function of frequency, temperature and time.

Its modular design along with a wide variety of sample holders and cooling systems allow the DMA 242 E *Artemis* to handle a broad range of applications and samples.

Various add-on options make it the ideal device for any laboratory and a safe investment for the long-term.

**Hang-down design**
for easy accessibility, handling and changing of the different sample holders

**Over 30 different sample holders**
for optimal adjustment of measurement conditions to material properties

**Controlled gas flow (inert or oxidizing)**
with optimal heat transfer on samples for defined measurement conditions

**Various cooling options.**
Three different cooling systems; liquid nitrogen-controlled cooling to -170°C,  intracooler AIC 80 for measurements below room temperature  to -70°C  and compressed-air cooling to 0°C with vortex tube

**Controlled force range up to 24 N**
(12 N static and 12 N dynamic) for measurements of very stiff samples. Increased resolution in the measuring range 4 N static and 4 N dynamic

**A stepper motor with a 20-mm travel range**
allows for precise testing on materials which exhibit substantial changes in length during a DMA measurement. This is particularly important for the different static experiments available with the DMA 242 E *Artemis*; i.e., creep, relaxation and TMA mode.