# DMA GABO EPLEXOR® Series Up to ±500 N

## High-Force DMA

The testing instruments of the DMA GABO EPLEXOR®® series up to ±500 N enable the dynamic mechanical (or static) characterization of a wide range of different materials including elastomers and polymers, composites, metals, glasses, ceramics, biomaterials and foods, adhesives, and liquids.

The modular design of the high-force DMA systems allows for measurements in the tension, compression, bending and shearing modes. The testing machines in this series differ from each other mainly in terms of their maximum dynamic force ranges of ±25 N, ±100 N, ±150 N and ±500 N.

Various add-on options make these testing machines a safe investment for the long-term.

All testing machines in this series are conform to standards such as DIN 53513, ISO 6721/1, ISO 6721/4, ISO 6721/5, ISO 6721/6, ISO 4664, ASTM D4065, and ASTM D4473.

**Flexible and Set for the Future**  
...by means of a variety of force and strain sensors as well as furnaces which allow for easy upgrades to the basic system at any time after the first installation

**High Force Levels**  
...allowing for static loads up to 1500 N and dynamic loads up to ± 500 N; especially meaningful for investigations on curable resins, elastomers, composites, metals, glasses or ceramics

**Two Independent Drives**  
...featuring a servo motor for static and a shaker for dynamic loads

**Interchangeable Force Sensors**  
...which can be easily changed out by the operator; nominal loads available ranging from ±10 N to ±2500 N

**24/7 Operation via the Automatic Sample Changer**  
...for tension, compression and bending samples across the entire temperature range around the clock

**Optimized for Temperature Sweeps on Large Samples**  
...thanks to uniform heating of even large samples with low thermal conductivity (e.g., large rubber specimens)

**Highly Economic LN2 Cooling**  
...for low liquid nitrogen consumption

**Simultaneous Determination of Dynamic Mechanical and Dielectric Material Properties**