

Xpander: a revolution for Dynamic Mechanical Analysis!

METRAVIB, a specialist in Dynamic Mechanical Analysis (DMA), is proud to present **Xpander**. Used in association with a METRAVIB DMA instrument, **Xpander** enables DMA test campaigns on a large number of specimens to be entirely automated.

Dynamic Mechanical Analysis serves to characterize the viscoelastic properties of materials (rubber and polymers) to an extremely high level of accuracy. In particular, it is the most accurate technique available to determine the glass transition of these materials (TG).

Such properties are central to the performance and functional properties of manufactured products. It is essential to measure such properties in order to comply with new regulations.

The diversity of formulations used and varied sourcing of raw materials means that laboratories must conduct increasing numbers of tests.

As a pioneer in the automation of dynamic testing, METRAVIB has been supplying the leaders of the rubber and tire industries with robotic dynamic mechanical analyzers for more than 15 years.

Now, METRAVIB confirms its position as a leader in this field.

Xpander has been designed to significantly increase the number of tests performed by DMA instruments in various test modes: compression, tension and shear. Tests are performed around the clock and no longer require the presence of an operator.

Xpander's flexibility makes possible to accommodate with material specimens of various shapes and sizes. The specimen handling automation targeted since the original design of DMA+ series ensures keeping high performance in their robotic mode.

In addition to a high test throughput, **Xpander** also offers several other advantages:

- Reduced labor costs,
- Improved accuracy and uniformity of results,
- Elimination of human error,
- Improved operator safety.

Furthermore, as Hugues Baurier, METRAVIB DMA International Trade Manager, tells us, *“**Xpander and the new DMA+ range** have been designed taking account of industrial expectations in terms of accuracy, performance, productivity and ergonomics, as expressed by worldwide leaders in the rubber and polymers sector.”*

With **Xpander**, METRAVIB offers automated Dynamic Mechanical Analysis instruments with configurations suitable for R&D, industrial testing and quality control departments.



METRAVIB is an ACOEM brand providing laboratories and the industrial sector with instruments for the characterization of the mechanical properties of materials using dynamic mechanical analysis (DMA).

ACOEM offers comprehensive services comprising smart monitoring, diagnosis and solutions in the fields of monitoring, maintenance and engineering.

Facts and figures: Revenue of €62 million with 450 employees in France, Sweden, Brazil, Asia and the US.

For more information, visit our website at www.metravib.com.

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