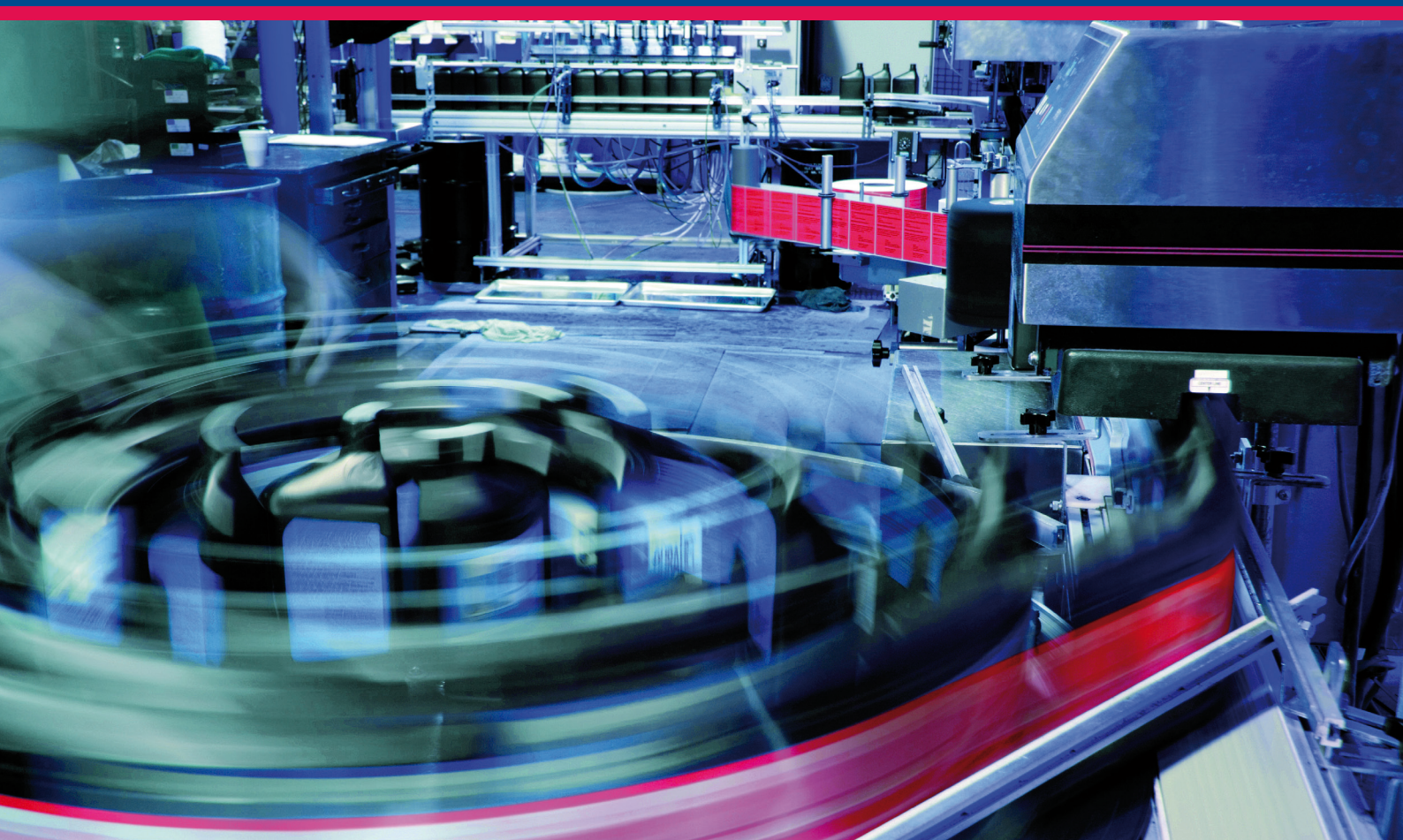


Measurement results in real-time

imc Online FAMOS on board the measurement system • imc Inline FAMOS on the PC



Data analysis during running measurements: increasing productivity

Real-time data analysis increases productivity

Immediate results as the measurement progresses

Measurements performed at test stations, whether for purposes of endurance testing or verifying the flawless functionality of vehicle manufacturing or mechanical engineering components, are very elaborate. They require intelligent tools supporting high-speed processes. Besides their need for often complex open- and closed-loop control mechanisms, it can be crucial for testing professionals to have access to measurement data immediately while being captured, in order to monitor the specimens current status, the proceeding of the test and to react accordingly.

The signal processing platforms **imc Online FAMOS** and **imc Inline FAMOS** allow open- and closed-loop control plus live data analysis. The latter is based on calculations applied to streaming data (data from measurements in progress).

Measurement results in physical real-time

The key component of imc measurement systems is the integrated real-time platform imc Online FAMOS. This tool, having its own dedicated processor, allows synchronized, real-time data processing with fully

deterministic response and cycle times which can be as low as 100 μ s. Perfect for turning a measurement system into an integrated system for open- and closed-loop control as well as measurement.

Analysis while the measurement runs

Extending this calculations on streaming data to the PC platform is a novelty for imc products. imc Inline FAMOS closes the gap between physical real-time on the device and classic post-processing. With the PC-based live data analysis, it is even possible to apply calculations that link channels originating from multiple different devices. A comprehensive collection of standard functions are available for the data analysis, including power calculation and statistical analysis as well as arithmetical operations.

Additionally, specialized functionalities are available for various application fields, such as order-tracking analysis, acoustics, strain gauge rosette circuits, class-counting algorithms for mechanical fatigue analysis, digital filters and characteristic curve linearisations.

