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SCIENCE TO PRACTICE

Analysis & Reporting Software

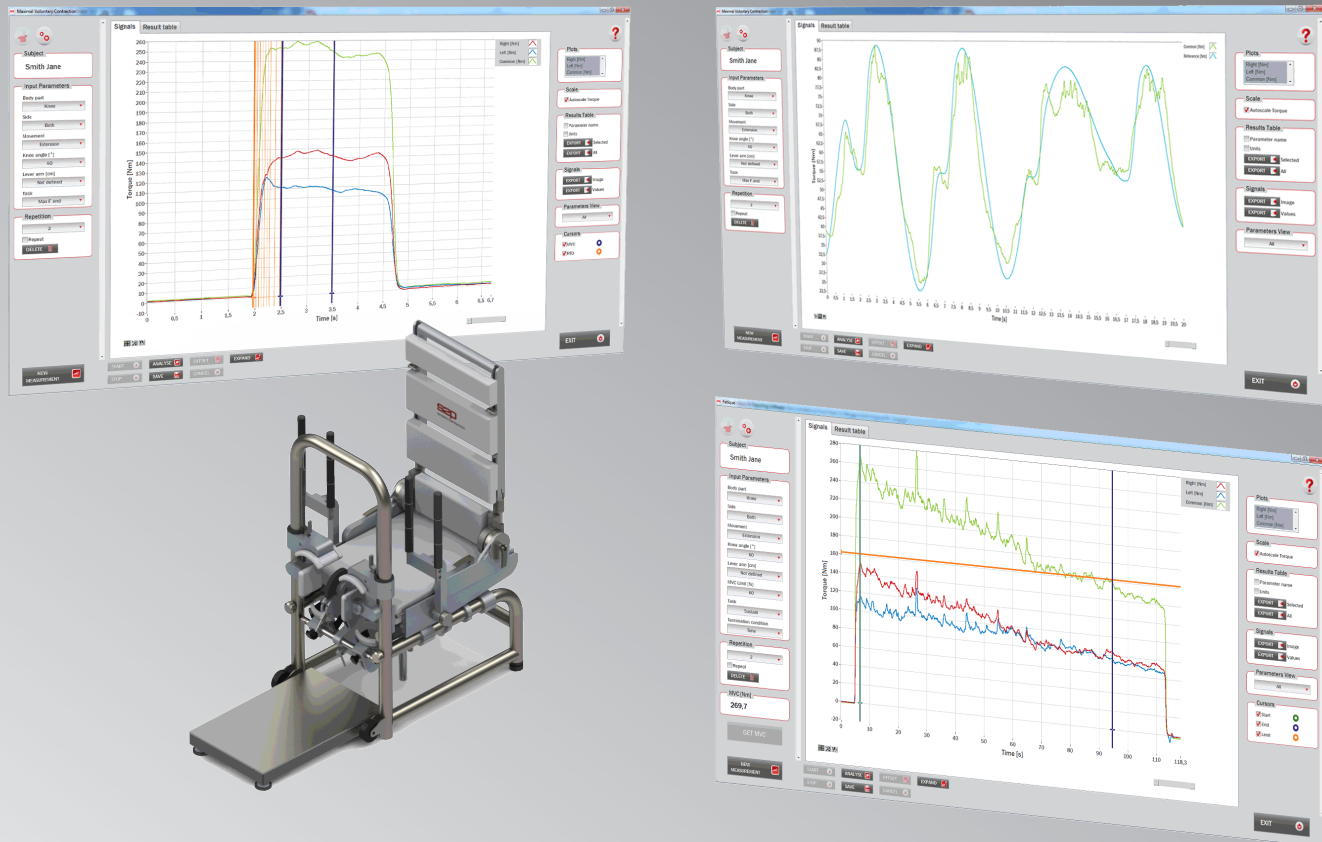
ARS
Analysis & Reporting Software

For the specific needs of force plates, dynamometry, electromyography with position sensors or custom-built measurement systems, we have developed ARS (Analysis & Reporting Software). ARS is an innovative, user-friendly software with a wealth of functions in order to collect and analyze a vast range of measurements in sport- and medicine-related fields. It is designed to support routine diagnostics and research work in such fields as biomechanics, motor control and behavior, and rehabilitation medicine. We offer a number of ARS applications (e.g., ARS for force plates, ARS for dynamometers, ARS for electromyography) and are constantly developing new applications. In addition, we provide custom-built software solutions for data measurement and management. For every use, pre-set modules calculate research-supported parameters/indexes. Moreover, ARS enables the user to freely collect signals emanated by the device, perform analyses, and export data in various formats (raw signal, signal graph, and parameter values).



ARS is based on the following concept structure:

- The **central processing unit** communicates with all other units and measurement modules, thus allowing tests to be administered easily and transparently.
- The **management unit** handles operational functions.
- The **ARS test modules** handle functions that help to ensure a smooth testing process.
- The **comparison unit** allows for a variety of comparisons.
- The **reporting unit** handles the functions required for the final step of subject evaluation.
- The **database module** handles the functions needed for data manipulation and storage.



The entire software is programmed in a LabVIEW environment. This concept provides ARS with all necessary data structures and functions for its three main tasks: data collection, analysis, and reporting. The individual software functions are interrelated in such a way that the end user can complete the measurement, analysis, and reporting processes intuitively and easily. All ARS functions are well-supported, along with extensive Help information including how-to examples.

CONTACT

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