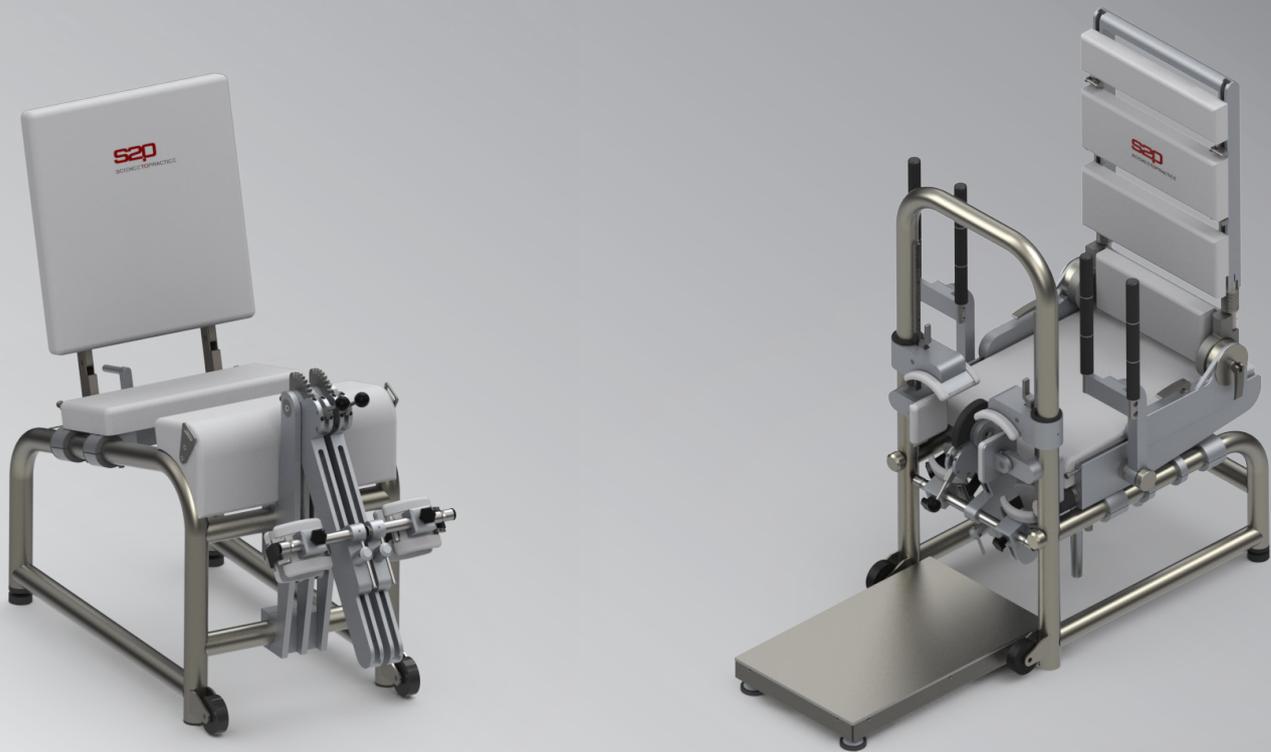




SCIENCE **T**O PRACTICE

# DYNAMOMETERS



## Characteristics of the dynamometers:

- Individually adjustable mechanical frame.
- High-quality electronic sensors.
- Purpose-built computer software for data collection and analysis.
- Easy to use.
- Valid, objective, and well-quantified mechanical parameters with regard to neuromuscular functions.
- Synchronization with other measuring devices.
- Stationary or portable measuring device.

## Current models:

- Knee Dynamometer (knee extension and/or knee flexion)
- Ankle Dynamometer (ankle dorsal and/or plantar flexion)
- Multi-Purpose Dynamometer (several single- and multi-joint movements)
- Custom-Built Dynamometers

The dynamometers are designed for use in physical medicine and rehabilitation, sport, and kinesiology. Each Dynamometer set consists of dynamometer framework, amplifiers, A/D converter, cables, and one laptop with ARS (Analysis & Reporting Software).

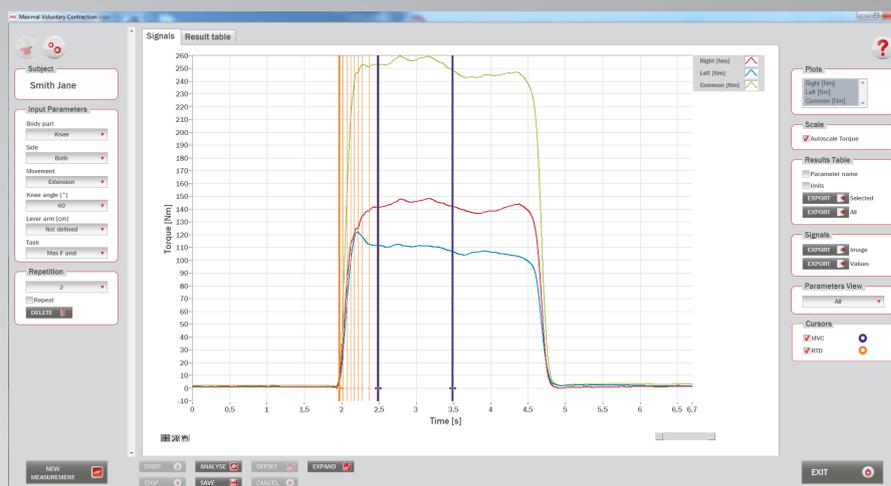
# Analysis & Reporting Software DYNAMOMETRY

**ARS**  
Analysis & Reporting Software

ARS (Analysis & Reporting Software) for Dynamometers offers several measurement modules that allow the user to evaluate his/her subjects' physical performance in the areas of muscle strength, local endurance, and kinesthesia. The anticipated testing procedures and the calculations used for the observed parameters have been tested and proven in theory and in real-life conditions. Besides the standard parameters, many other evidence-based parameters are also calculated for a single test, thus providing the user with a broad range of information and allowing him/her to extract the as much information as possible from the signals that are recorded.

## Measurement modules:

- Maximal Voluntary Contraction
- Fatigue
- Tracking
- Force Matching
- Twitch
- Activation Level



# CONTACT

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