

# S20

SCIENCE **T** O PRACTICE

## FORCE PLATES

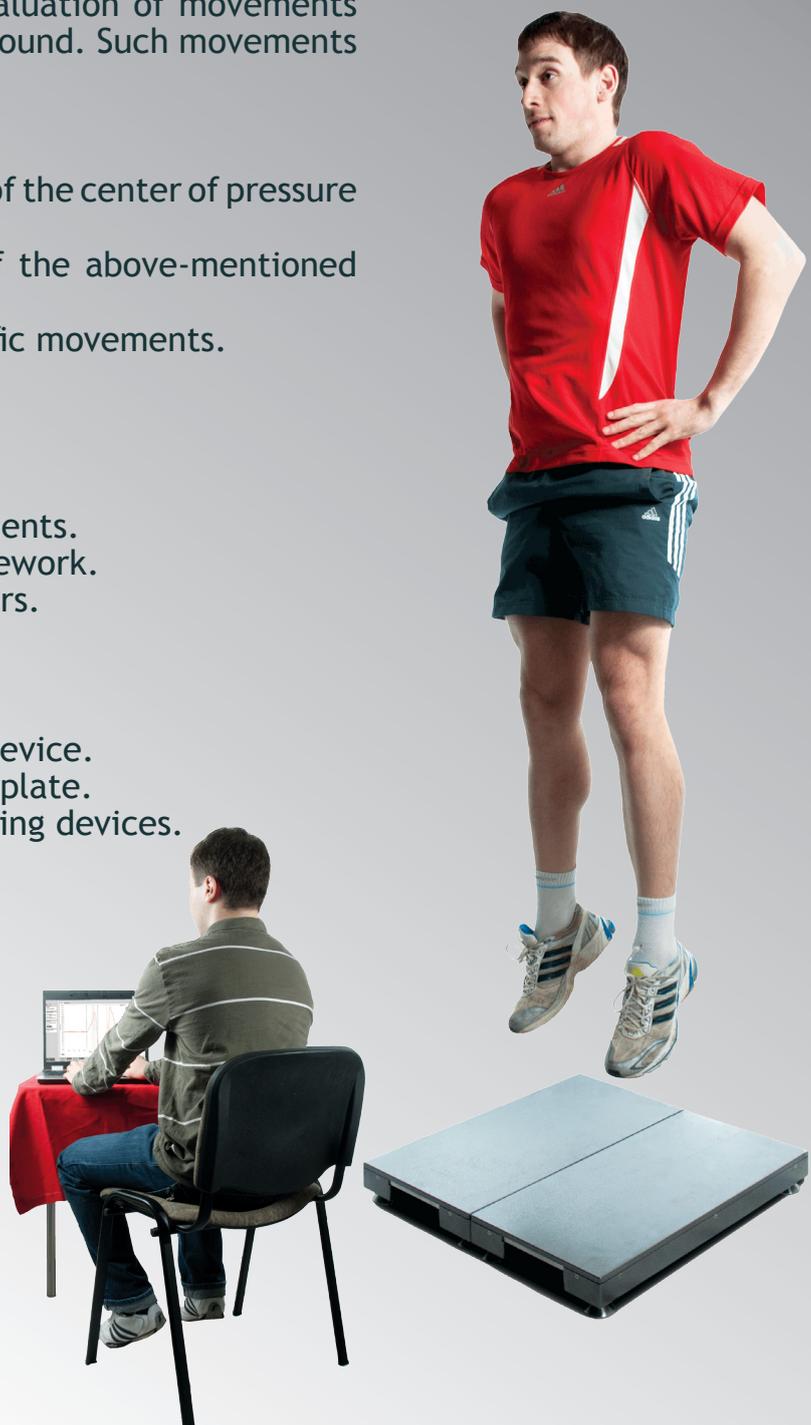
Force plates are designed for the evaluation of movements that produce forces that act on the ground. Such movements typically include the following:

- Jumps and hops.
- Static and dynamic balance.
- Dynamic changes in the projection of the center of pressure during different motor tasks.
- Functionally relevant variations of the above-mentioned movements.
- Free measurement for other specific movements.

### Characteristics of the force plates:

- High-quality materials and components.
- Stainless steel and aluminum framework.
- Strain gauge or piezoelectric sensors.
- Bilateral or unilateral component.
- Rigid and light structure.
- High level of accuracy.
- Stationary or portable measuring device.
- Wooden safety frame around each plate.
- Synchronization with other measuring devices.

Each Force Plate set consists of one force plate, amplifiers, A/D converter, cables, and one laptop with ARS (Analysis & Reporting Software).



# Analysis & Reporting Software

## FORCE PLATE

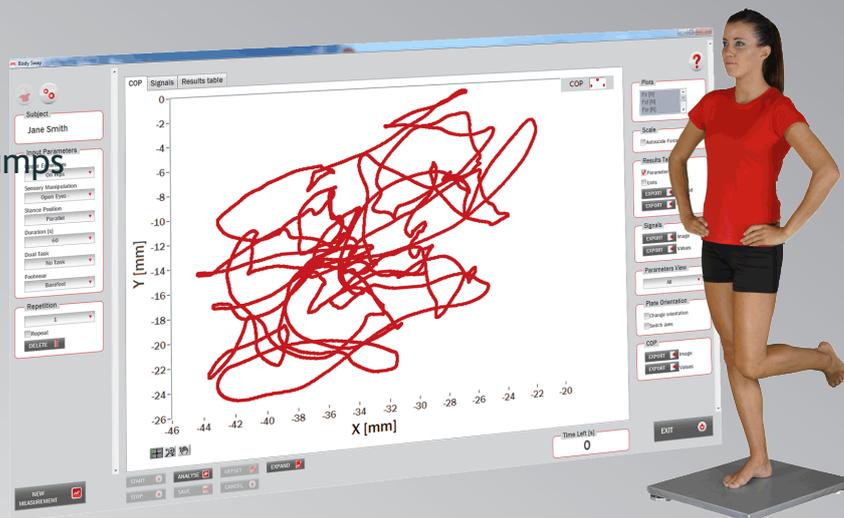
# ARS

Analysis & Reporting Software

ARS for Force Plates offers several measurement modules that allow the user to evaluate his/her subjects' physical performance in the areas of power, coordination, balance, and anaerobic endurance. 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.

### Analysis modules:

- Squat Jump
- Drop Jump
- Jumps with Additional Weights
- Repetitive Counter Movement Jumps
- Repetitive Hopping
- Long Jump
- Taping
- Stamping
- Forward Lunge
- Squat
- Sit-To-Stand
- Turn
- Step Analysis
- Body Sway
- Tracking Shapes



## CONTACT

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