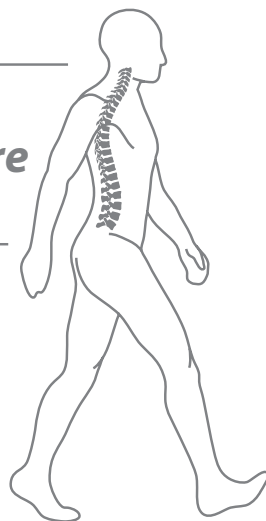




| Muscle Strength Measurement | Foot- & Gait Analysis | Spine & Posture Analysis |

**NEW** *Dynamic  
Spine & Posture  
Analysis*



# Static and dynamic foot pressure and gait analysis process

## DIERS pedoscan

The foot pressure recording and gait analysis system DIERS pedoscan allows to record and display quickly and precisely the pressure distribution on the human foot while standing or while walking.

Many clinical issues concerning the objective and quantitative analysis of pressure distribution, pressure peaks, and movement asymmetries as well as the rollover behavior are recorded to help to diagnose foot malformations or functional limitations of the lower extremities.

The precise, high-frequency measurement technology allows all users to record and document even rapid movements of the body's centre of pressure and load changes.

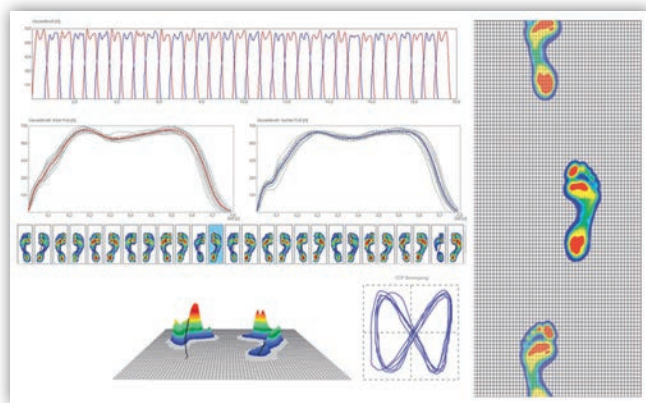
For a time-saving dynamic measurement in both directions the walking direction is automatically identified by the software.

The high-frequency measurement of the body's centre of pressure (min. 100 Hz) provides additional information about neurological issues and extends the range of application to (competitive) sports.

There are pressure plates available in the length of **1.0 to 4.0 m**.



## DIERS pedogait



The DIERS pedogait system allows the functional representation of the foot pressure reaction forces while walking. The integrated measuring platform is 1.0 m long with 5.376 sensors for an exact capture of the pressure values. The admission frequency is 100 Hz, which corresponds to a tact frequency of 10 ms. Measurement precision is gained and needed due to postural variances of the human body. The treadmill can be used for static measurements of the foot pressure measurement as well as for the stabilometry.

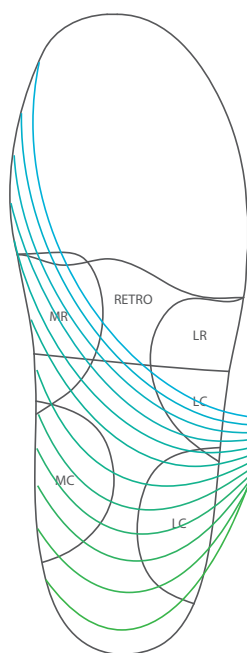
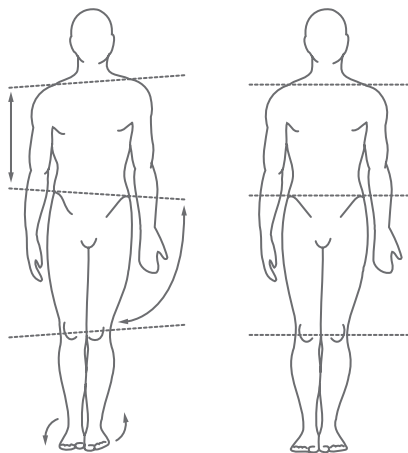
The **DIERS pedogait** is ready for the simultaneous measurement with the **DIERS 4D motion®** as well as with the module **DIERS leg axis**.

## DIERS posture balance

### Posture correcting insoles

The DIERS posture balance program is based on the principles of posture correction in accordance with Dr. Bourdiol. It uses the measurement data of the DIERS formetric system. The expert knowledge was verified in a research project with the University of Tübingen (Institute of Sports Medicine).

The DIERS posture balance program is useful to generate recommendations for posture correcting insoles (also known as sensory motor or proprioceptive insoles) – in consideration of the patient's medical history.



### Clinical Applications:

- Postural deficits
- Back pain
- In combination with CMD therapy
- In combination with treatment of foot and leg malpositions

### Benefits for Patients:

- Objective and rapid treatment
- Documentation of the results
- Easily implemented progress checks
- Often spontaneous improvements of the findings

### Fields of Application:

- Orthopaedic clinics and practices
- Rehabilitation centers
- Orthopaedic technology
- Sports medicine
- Physiotherapy
- etc.

