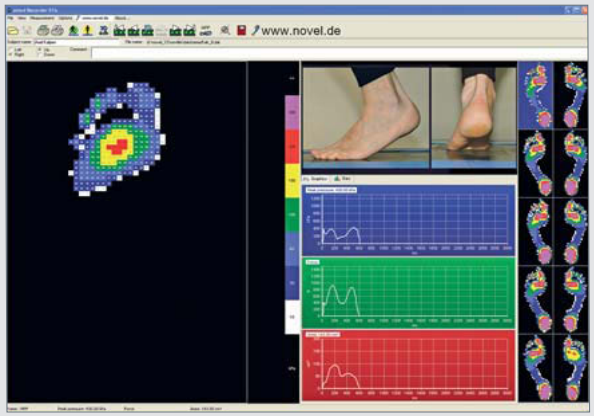
emed® Recorder software

A software upgrade option, emed® Recorder, is available for the emed® CL software. The emed® Recorder software synchronously collects dynamic pressure data and one or more video streams. No extra video software is required. Video synchronization is made via the microphone port of the DV camera.
The system starts recording automatically when the subject's foot touches the platform. Data and video are stored in the novel folder and can be displayed synchronously frame by frame.



Load distribution during the push off phase of gait

The synchronised data are stored automatically to the novel database from which the data acquisition had been started.
Several measurements can be displayed simultaneously on the screen. Pressure, vertical force, and contact area curves are shown. 3D dynamic roll-over process can be displayed and rotated together with the gaitline. The MPP picture can be printed in original size with pressure values for each sensor element, subject's name, and date of measurement.

novel database emed® light

The database emed® light is designed to manage subject demographic and pressure data in an easy and user-friendly way. It consists of various tables such as patient data, visit data, emed®, pedar® and pliance® data, user files and calculated parameters. The database emed® light supports access to all novel programs including the novel foot reports.

Features

- Manages basic patient data, text files, images, and video data of patients
- Performs complex database search (any combination of data fields can be searched by specifying conditional requests)
- Initiates data acquisition
- Calculates basic predefined parameters (peak pressure, maximum force, contact area, contact time)
- Provides access to novel report system
- Allows access to further novel software

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emed® pedography software

emed® CL software

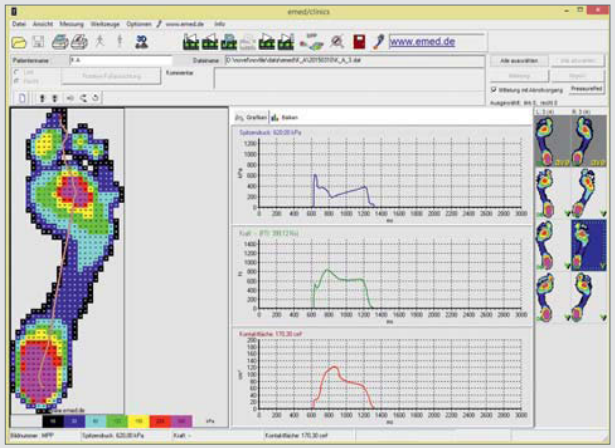
The emed® software works in conjunction with the novel database and emed® pedography platform for the assessment of dynamic plantar pressure distribution. The software provides an immediate overview of the measurement data including dynamic playback, display of several parameters, and maximum pressure pictures (MPPs) for all collected files.

The new emed® CL software is designed for routine clinical practice. The emed® Recorder software may be used with user defined configurations such as selecting the measurement duration for balance during dynamic posture analysis.
The posturography option provides another analysis feature for data collection. The additional "shoescore" option automatically calculates the dynamic foot length and recommends a shoe size.

Measurement configuration

The emed® CL data collection program automatically begins from the novel database. An audio tone prompts the patient to walk across the emed® platform.
Data collection begins at initial contact with the sensor platform and records for 3 seconds. An error may occur if the sensor border area is contacted. This data file is automatically recognized and excluded from saving. In the event that multiple foot steps are recorded during one pass on the platform, it is possible to separate the foot steps upon completion of data collection.

measurement

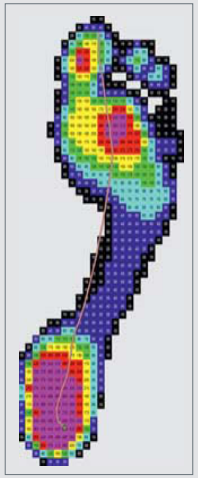


Maximum print image with time curves

An audible tone prompts the patient to begin walking. The recording starts automatically and can be stopped manually or after having reached the necessary number of steps. An automatic foot recognition distinguishes between left and right steps. Comment and information about foot deformities can be stored.

Display of data

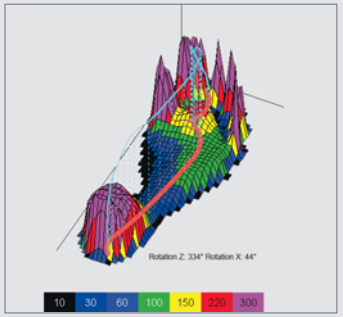
After the measurement, the maximum pressure picture of the step is displayed either in a 2D sensor view, a 3D view, or an isobar view.
The pressure values are shown in numbers and color according to the default color scale. Foot length, width, and foot progression angle can be displayed.



2D image

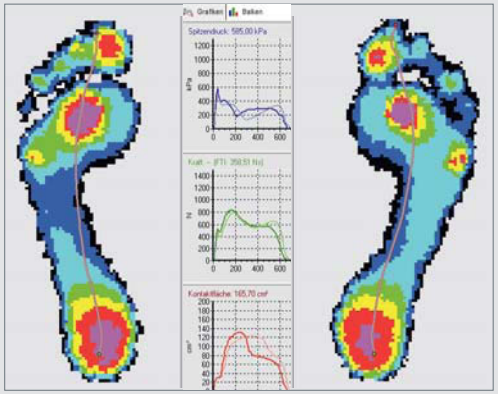
display of data

The 3D display shows the gaitline in red and the amplitude of vertical force in light blue.
Additionally, the viewing angle for this display can be changed.



3D image

Three diagrams next to the pressure picture display time curves for maximum pressure, vertical force, and contact area. These values are also given in numbers.
An overview window on the right-hand side shows the 10 most recent trials as maximum pressure pictures. They can be selected for display, averaging, comparison, or for further evaluation in clinical report software or for export to CAD/CAM applications.



Compare average maximum pressure pictures