

# FDM-SX Multifunction Force Measuring Plate



## Measuring System for Analyzing Force Distribution



The zebris multifunction force measuring plate operates with 1792 capacitive force sensors arranged in a 32 x 56 cm matrix. It allows analysis of the static and dynamic force and pressure distribution under the feet / shoes when standing and walking.

The areas of application cover simple and fast dynamic roll-off analysis and static load distributions. These can be used to determine foot function.

For the analyses, evaluation of the data measured takes place directly after the measurement.

The results are available in the shortest possible time by way of a "Report"

The FDM-SX system is used as a stand-alone measuring unit and is connected via an USB interface to a standard PC.

The system does not need any additional electronic devices.

The FDM-SX system consists of a multifunction force measuring plate with a special connecting board integrated in the zebris motion analysis system.



Platform system for analysing:

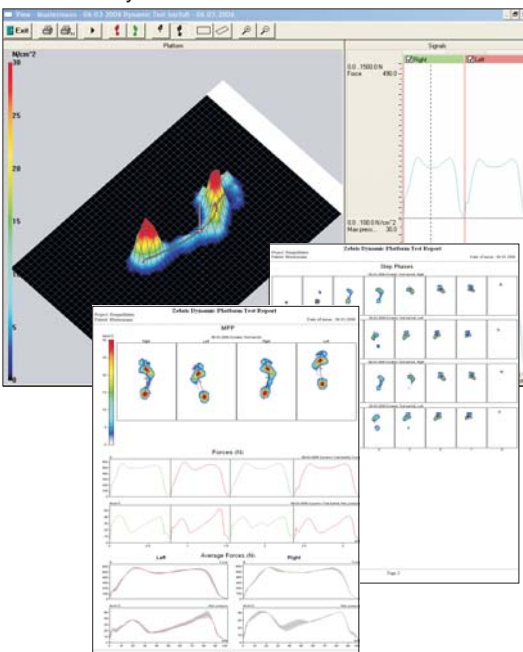
- Gait
- Foot function
- Posture
- Load distribution
- Equilibrium

Comparative analyses:

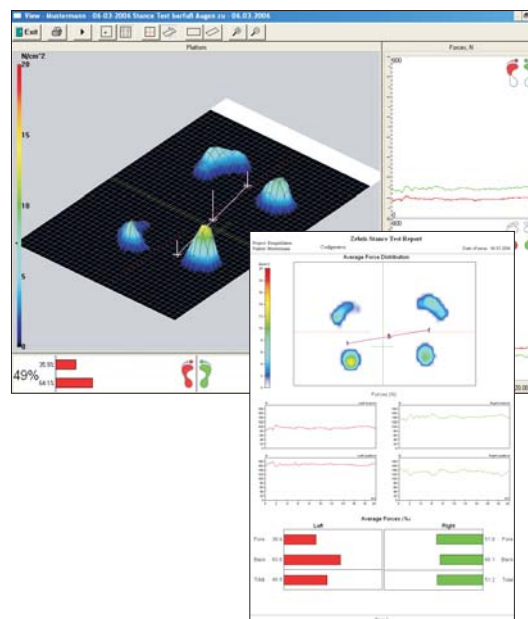
- Barefoot - with shoes
- Influence of shoe and inlay sole on roll-off behaviour

All sensors in the platform are individually calibrated

Roll-Off analysis



Load distribution analysis, Foot deformities



For further information please contact

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## Technical Data

Dimensions	Length	730 mm
	Width	420 mm
	Height	22 mm
	Weight	9 kg
Sensor area		320 x 560 mm
Number of sensors		1792
Sampling rate		120 Hz
Accuracy		± 7 %
Force range		1 - 120 N/cm <sup>2</sup>
Calibrated force range		bis 80 N/cm <sup>2</sup>
Measuring principle		capacitive
PC interface		USB
Interface		for combination with a video camera for infrared synchronization
Software		runs under WindowsXP