



# FootMat™ Software for Researchers

## Foot Function & Gait Analysis Software

FootMat Software for Researchers provides accurate and reliable pressure data for studying foot function and gait. Capture static pressure data for pressure offloading or multiple footsteps for gait analysis.

### Advantages

#### Research validated & peer accepted system

Used by leading researchers around the world for foot function analysis

#### Unrestricted data analysis

Export data into a variety of file formats (ASCII, Excel, MATLAB)

#### Accurate & consistent data

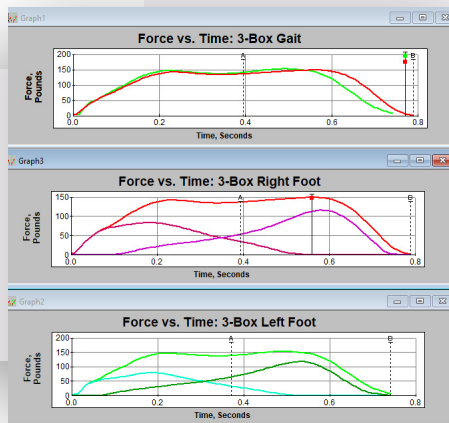
Calibrate the systems to meet your needs with no need to send the systems back

#### Compatible with gait lab technology

Synchronize with force plates, and other gait lab technologies such as EMG and motion capture

Heel Contact Time (sec)	0.34		
Heel-Metatarsal Curves Crossing	0.49		
Heel Contact Time (sec)	6.9		
Heel Maximum Force (%BW)	0.03		
Heel Maximum Force (Pounds)	0.54		
Heel COF Time (sec)	44%		
Heel COF Time (sec)	78.7		
Heel COF Time (sec)	0.12		
Heel COF Time (sec)	433.5		
Heel COF Time (sec)	-305.6		
Heel COF Time (sec)	0.60		
Heel COF Time (sec)	0.59		
Heel COF Time (sec)	20%	25%	-5%

Segment the foot for detailed analysis



### Optimize Data Analysis

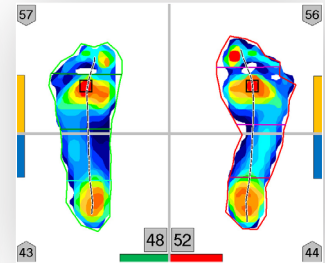
#### Automated Foot Segmentation Analysis

- Segments the foot into three key regions: heel, metatarsal and total foot
- Isolate the heel and forefoot pivot for more detailed foot function
- Graphs display force vs. time curves for each foot segment, as well as left and right feet
- Force vs. time table with heel/metatarsal crossing times and the locations of the peaks and troughs

## Automated Peak Pressure Analysis

- Easily determine high pressure areas with color coding
- Identifies and quantifies peak plantar pressure area for each foot
- Calculates Peak Pressure Gradient (PPG) which is a potential predictor of ulcer development

Heel Contact Time (sec)
Heel Maximum Force (%BW)
Heel Maximum Force (Pounds)
Heel COF Time (sec)
Heel Loading Slope (Pounds/sec)



Foot function parameter tables display information on contact time, loading and off-loading rates, Center of Force (CoF) velocity information for in-depth analysis.

Analyze data for asymmetries in pressure distribution, deviations in the center of force trajectory and in weight bearing between left and right feet.

## Expand Your Research

Tekscan's proprietary software helps you analyze data in a variety of ways. Real time or recorded data displays in 2D or 3D. The data can also be evaluated in frame by frame, single or multi-stance phase modes.



### ASCII Export

Allows sensor data and graphs to be imported and analyzed in external software.



### Remote Triggering

Synchronizes the start and stop of data collection with other Tekscan systems and other gait lab devices.

## Platform Compatibility

FootMat software is compatible with both the SB Mat™ and the MobileMat™ platforms. For information about the platform offerings, please see the mat data sheets or talk to your local sales representative.



MobileMat is a light-weight and portable solution



617.464.4281  
1.800.248.3669

info@tekscan.com  
tekscan.com/biomechanics

Call Today for a  
Demonstration!