

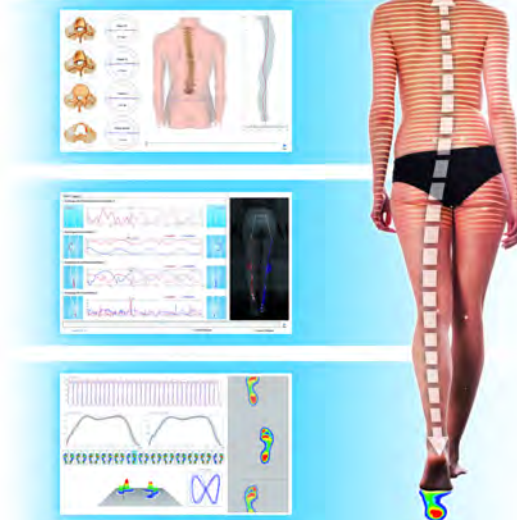
The DIERS Pedogait

The DIERS pedoscan (foot pressure recording and gait analysis system) 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 to 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



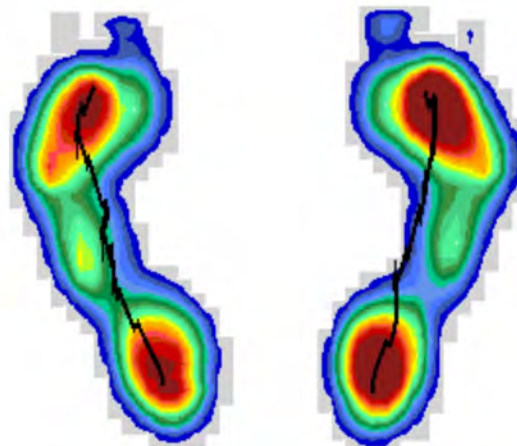
The high-frequency measurement of the body's centre of pressure provides additional information about neurological issues and extends the range of application to (competitive) sports. The DIERS pedogait system allows the functional representation of the foot pressure reaction forces while walking. The integrated measuring platform is 1.0 m long with 5.376 sensors for an exact capture of the pressure values. 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

DIERS
4D motion® Lab



3in1 • Dynamic Spine Analysis
• Video Gait Analysis
• Foot Pressure Measurement

MOTION
ANALYSIS



The example above shows the pronation of the right foot. The force reation depicted by the black line curves inwards at the mid foot.

FEET AND SPINE Shoes, supports & seats

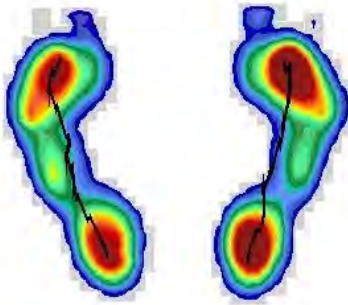
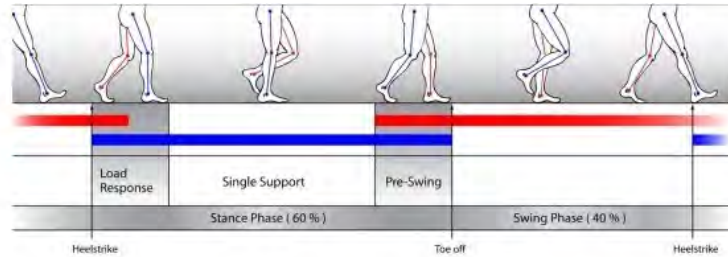
Units 4 & 5, (beside Monkhouse), The Precinct, Cheadle Hulme SK8 5BB.
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FEET AND SPINE

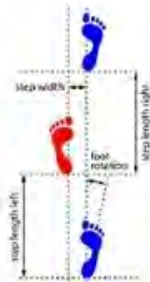
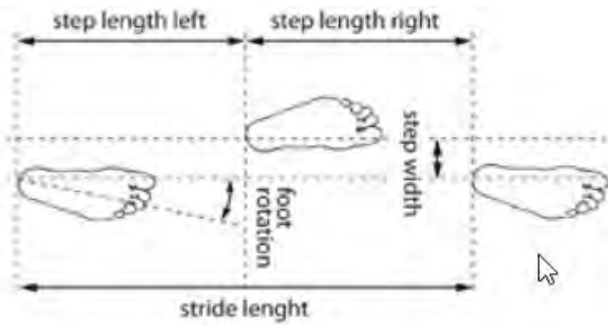
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Stance time [%]	Left	65.9 +/- 3.35	
	Right	63.7 +/- 4.27	
Load response [%]	Left	13.9 +/- 1.82	
	Right	16.7 +/- 1.87	
Single support [%]	Left	36.1 +/- 1.39	
	Right	33.7 +/- 2.52	
Pre-swing [%]	Left	16.9 +/- 1.75	
	Right	14.2 +/- 1.41	
Swing time [%]	Left	34.1 +/- 1.11	
	Right	36.3 +/- 2.29	
Double support [%]		16.6 +/- 2.04	



Stride length [cm]		73.7 +/- 1.99	
Stride time [s]		1.3 +/- 0.05	
Step length [cm]	Left	39.1 +/- 1.63	
	Right	34.6 +/- 1.21	
Step time [s]	Left	0.6 +/- 0.03	
	Right	0.6 +/- 0.04	
Stride width [cm]		10.4 +/- 7.11	
Foot rotation [°]	Left	20.2 +/- 0.13	
	Right	16.5 +/- 0.24	
Cadence		96.0	
Velocity [km/h]		2.0	