

Strideway™

GAIT ANALYSIS SYSTEM

Strideway™ is the first truly modular pressure measurement platform for human gait analysis! The system captures objective force and plantar pressure data, PLUS temporal (time) and spatial (distance) parameters.



Portable, easy transport & compact storage



Quick & simple set-up



Adjustable lengths



Simplified data analysis for gait



Compatible with EMG and 3D motion capture

Selection Guide & Specifications

	Standard Resolution	High-Resolution ¹
Sensor Model	3160	3164
Resolution	0.968 sensels™/cm ² 6.25 sensels/in ²	3.88 sensels per cm ² 25.00 sensels/in ²
Maximum Scan Speed	500 Hz	250 Hz
Pressure Ranges	40, 75, 125 psi 276, 518, 862 kPa	40, 75, 125 psi 276, 518, 862 kPa
Sensor Technology	Resistive	
Platform Height	15 mm (0.59 in)	
Weight (per tile)	6.58 kg (14.5 lbs)	
Data Connection	USB 2.0 (only 1 per system)	
Power	100-240VAC 50/60 Hz IEC320 Socket in 12VDC 30W out	



Ultra-thin platform reduces trip hazard and gait interferences

Note 1: High-Resolution suitable for both adults and pediatrics.

Strideway Data Sheet

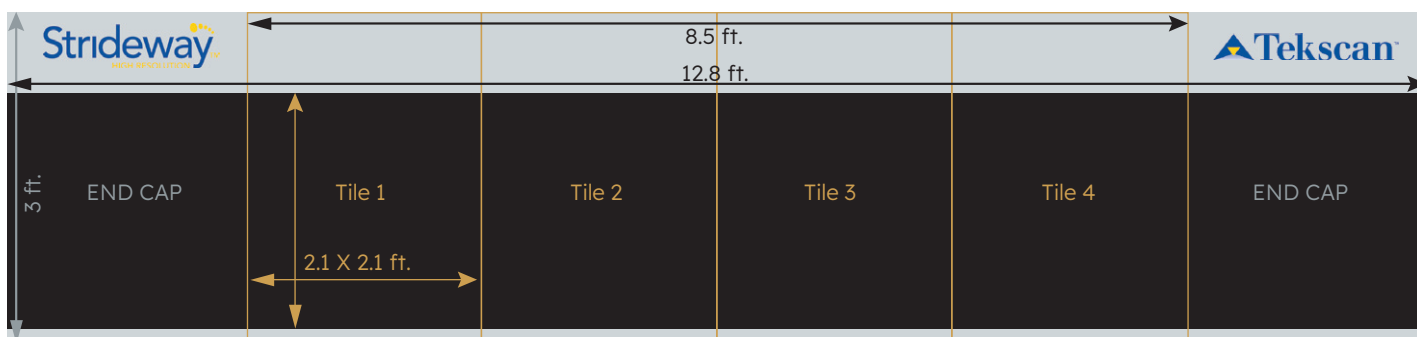
Selection Guide: Platform Dimensions

To help ensure all your data is good data, the Strideway system comes standard with two end tiles to allow patients and subjects to ease into and out of comfortable gait prior to collecting data. To help you plan space requirements, below are the full platform dimensions and active sensing area.

Model	Active Sensing Area	Overall Dimensions with End Tiles
Strideway 2	0.65 x 1.3 m 2.1 x 4.3 ft	0.91 x 2.60 m 3.0 x 8.5 ft
Strideway 3	0.65 x 1.95 m 2.1 x 6.4 ft	0.91 x 3.25 m 3.0 x 10.7 ft
Strideway 4	0.65 x 2.60 m 2.1 x 8.5 ft	0.91 x 3.90 m 3.0 x 12.8 ft
Strideway 5	0.65 x 3.25 m 2.1 x 10.7 ft	0.91 x 4.55 m 3.0 x 14.9 ft
Strideway 6	0.65 x 3.90 m 2.1 x 12.8 ft	0.91 x 5.20 m 3.0 x 17.1 ft
Strideway 7	0.65 x 4.55 m 2.1 x 14.9 ft	0.91 x 5.85 m 3.0 x 19.2 ft
Strideway 8	0.65 x 5.20 m 2.1 x 17.1 ft	0.91 x 6.50 m 3.0 x 21.3 ft

Gait Analysis Made Modular

In addition to creating a truly portable form factor, the modular set-up means that additional tiles can be added on at any time to create a longer surface area.



Strideway 4 System shown above, gold lines indicate active area for each tile, which connect together to form the Strideway.

Portable Solution

The Strideway system comes with a compact storage case on wheels for convenient storage and transport. It is quickly assembled and disassembled to provide complete flexibility with data collection.



The Strideway is quickly assembled/dis-assembled for easy storage & transportation.

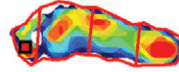


Gain Important Insights into Gait with Strideway

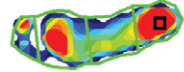
Tekscan's advanced, proprietary Strideway software helps you analyze data in a variety of ways. All Tekscan software works with current Windows-based, 64-bit operating systems. Software features include:

- Automated foot segmentation for detailed analysis
- Pressure profiles (visual pressure distribution)
- Force vs. time graphs
- Patient/subject database
- Side-by-side comparison for pre- and post-recordings
- Export recorded movies as AVI or ASCII files
- External triggering and data synch

R2 59-98 (*P) 357 KPa @Frame 91



L1 31-87 (*P) 414 KPa @Frame 35



Segment the foot for deeper analysis

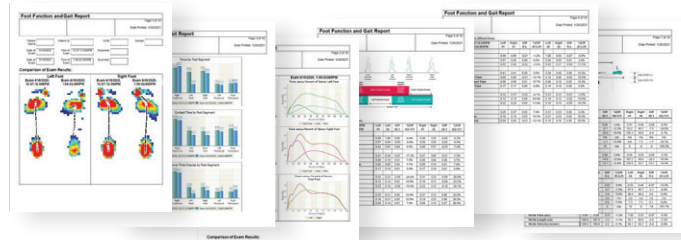
Gait Cycle Table				Step-Stride Table			
Subject1				Subject			
	Left	Right	R-L Diff		Left	Right	R-L Diff
Gait Cycle Time	1.48	1.48	0.00	Step Time (sec)	0.78	0.70	0.00
Stance Time	1.00	1.02	0.02	Step Length (cm)	42.6	43.3	0.7
Swing Time	0.48	0.46	-0.02	Step Velocity (cm/sec)	54.4	62.2	7.8
Single Support Time	0.43	0.45	0.02	Step Length/eg Length (ratio)	n/a	n/a	n/a
Initial Double Support Time	0.28	0.32	0.06	Step Width (cm)	16.2	16.8	0.4
Terminal Double Support Time	0.32	0.26	-0.06	Stride Time (sec)	1.48	1.48	0.00
Total Double Support Time	0.58	0.58	0.00	Stride Length (cm)	84.0	87.6	2.0
Heel Contact Time	0.73	0.68	-0.07	Stride Velocity (cm/sec)	57.4	59.2	1.8
Foot Flat Time	0.58	0.45	-0.11	Maximum Force (%BW)	n/a	n/a	n/a
Midstance Time	0.45	0.48	0.03	Maximum Force (mg)	102.45	95.41	-7.04
Propulsion Time	0.27	0.21	-0.06	Impulse (%BW*sec)	n/a	n/a	n/a
Active Propulsion Time	0.01	0.03	0.03	Impulse (kg*sec)	68.01	60.98	-7.94
Passive Propulsion Time	0.28	0.31	0.05	Maximum Peak Pressure (KPa)	450	453	3
				Foot Angle (Degree)	7	12	5

Easily evaluate symmetry between left and right sides

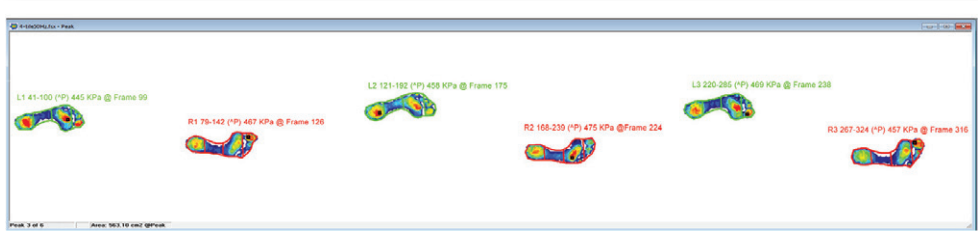
Automatic Calculation of Gait Parameters

Just a couple clicks of the mouse generates tables and reports that provide a clear visual display of gait parameters.

- Symmetry score between left and right sides
- Step, stride and timing insights
- Key gait cycle parameters: cadence, velocity, distance



Export gait data and tables into Microsoft® Word reports, making it easier to compare pre-and-post gait data.



3-Segment Foot Model: Automatic stance detection, labeling and segmentation for fast and thorough gait analysis

Disclaimer: The contents of this publication may be of interest to medical professionals or other health care providers. Such persons should exercise their own judgment in determining whether a particular product, treatment, therapy option, procedure, program or service is appropriate or legal for their practice or their patients.