Tekscan™

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. Strideway is …

- Portable platform with easy transport & compact storage
- Quick & simple set-up
- Adjustable lengths
- Simplified data analysis for gait
- Integrate with other systems, such as EMG or 3D motion capture

Selection Guide and Specifications

	Standard Resolution (Adults)	Medium Resolution (General Purpose)	High-Resolution (Pediatric)
Sensor Model	3160	3162	3164
Resolution	0.968 sensels™/cm² 6.25 sensels/in²	2.19 sensels/cm² 14.13 sensels/in²	3.88 sensels per cm² 25.00 sensels/in²
Maximum Scan Speed	500 Hz	250 Hz	250 Hz
Pressure Ranges	75, 125 psi 518, 862 kPa	40, 75, 125 psi 276, 518, 862 kPa	40, 75 psi 276, 518 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

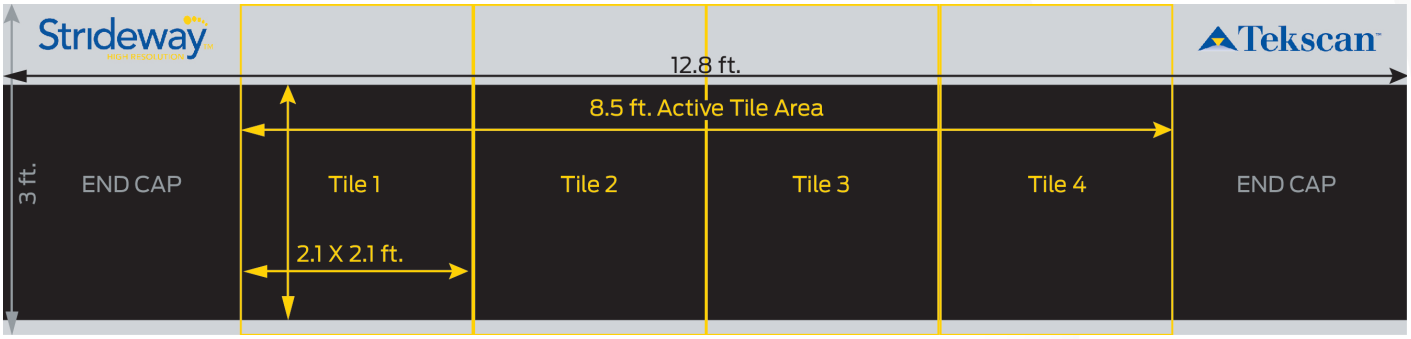
Selection Guide: Platform Dimensions

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, yellow lines indicate active area for each tile, which connect together to form the Strideway.

Portable Solution

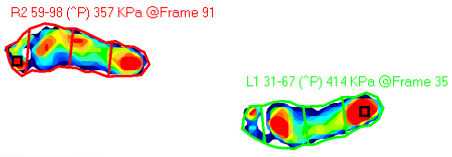
The Strideway system comes with a compact storage case on wheels for convenient storage and transport. It is quickly assembled and dis-assembled to provide complete flexibility with data collection.

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 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



Segment the foot for deeper analysis

Automatic Calculation of Gait Parameters

One click of the mouse generates tables 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

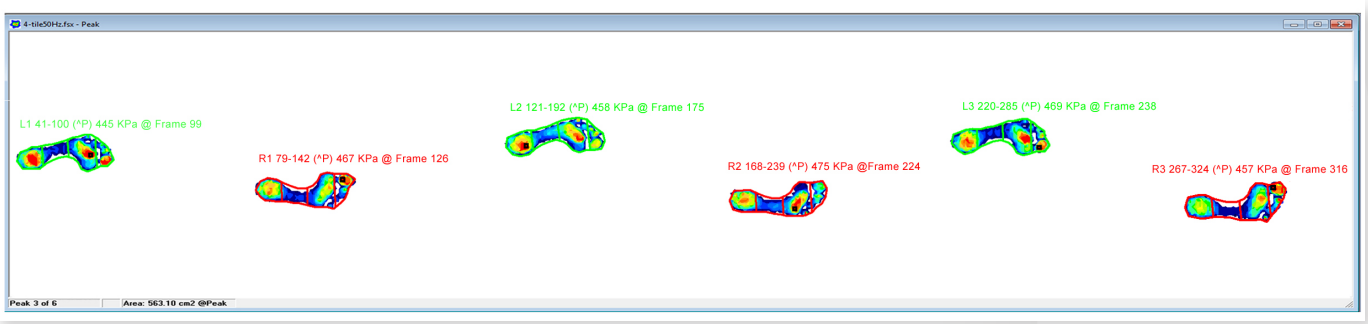
Gait Cycle Table

Gait Cycle Table (sec)	Subject1		
	Left	Right	R-L Diff
Gait Cycle Time	1.48	1.48	0.00
Stance Time	1.00	1.02	0.02
Swing Time	0.48	0.46	-0.02
Single Support Time	0.43	0.45	0.02
Initial Double Support Time	0.26	0.32	0.06
Terminal Double Support Time	0.32	0.26	-0.06
Total Double Support Time	0.58	0.58	0.00
Heel Contact Time	0.73	0.80	0.07
Foot Flat Time	0.56	0.45	-0.11
Midstance Time	0.45	0.48	0.03
Propulsion Time	0.27	0.21	-0.05
Active Propulsion Time	0.01	0.03	0.03
Passive Propulsion Time	0.26	0.31	0.05

Step-Stride Table

Step-Stride Table	Subject1		
	Left	Right	R-L Diff
Step Time (sec)	0.78	0.70	-0.09
Step Length (cm)	42.6	43.3	0.7
Step Velocity (cm/sec)	54.4	62.2	7.8
Step Length/Leg Length (ratio)	n/a	n/a	n/a
Step Width (cm)	16.2	16.6	0.4
Stride Time (sec)	1.48	1.48	0.00
Stride Length (cm)	84.8	87.6	2.8
Stride Velocity (cm/sec)	57.4	59.2	1.8
Maximum Force (%BW)	n/a	n/a	n/a
Maximum Force (kg)	102.45	95.41	-7.04
Impulse (%BW*sec)	n/a	n/a	n/a
Impulse (kg*sec)	68.91	60.98	-7.94
Maximum Peak Pressure (KPa)	450	453	3
Foot Angle (degree)	7	12	5

Easily evaluate symmetry between left and right sides



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.

CALL TODAY FOR A DEMONSTRATION!

Tekscan™

©Tekscan Inc., 2017. Tekscan, the Tekscan logo, and Strideway are trademarks or registered trademarks of Tekscan, Inc. in the U.S. and other countries.

+1.617.464.4281 | 1.800.248.3669 | info@tekscan.com | www.tekscan.com/medical

DS_RevA_031817