Walkway™
Animal Gait Analysis System

Quickly and easily get all the data you need to accurately assess animal gait, lameness and evaluate treatments with the Walkway™ System. Evaluate gait parameters such as force per limb, stride length, and velocity for objective and quantified analysis. The Walkway is the only gait analysis system on the market that provides gait time and distance parameters, in addition to the vertical force (as a percent of body weight). The Walkway system can help you…

Observe and quantify gait abnormalities

- Study laminitis, osteoarthritis, and hip dysplasia
- Identify asymmetries and pressure profile discrepancies between front and hind or left and right hooves/paws
- Identify deviated Center of Force trajectories

Evaluate pre- and post-intervention changes

- Monitor improvements in strength and weight-bearing
- Speed healing time

Quantify subjective data

- Objective documentation of mobility issues
- Evaluate gait patterns over several strides
- Synchronize with video, motion capture or EMG for a more detailed analysis

High Resolution Walkways are available for smaller animals

Save time in data analysis through automation

- Automatic stance detection
- Detects differences between four-legged and two-legged subjects
- Automated calculation of gait parameters for step and gait time, force per limb, hoof/paw pressure, distance, velocity and cadence

Quadruped Stance-Stride Table	LargeDog20			
	LF	LH	RF	RH
Stance Time (sec)	0.23	0.18	0.23	0.19
Swing Time (sec)	0.15	0.32	0.24	0.30
Stride Time (sec)	0.38	0.50	0.49	0.47
Stride Length (cm)	85.3	111.3	111.8	108.2
Stride Velocity (cm/sec)	225.5	220.3	228.5	228.8
Stride Acceleration 1-2 (cm/sec2)	-65.2	n/a	n/a	n/a
Maximum Force (%BW)	n/a	n/a	n/a	n/a
Maximum Force (kg)	25.19	18.08	21.93	17.27
Impulse (%BW*sec)	n/a	n/a	n/a	n/a
Impulse (kg*sec)	3.36	1.90	2.71	1.86
Maximum Peak Pressure (KPa)	276	233	271	274

One click of the mouse generates tables that provide a clear visual display of gait parameters.

Animal Walkway Software

The Animal Walkway software is specially designed to detect the differences in strike patterns between four-legged subjects or two-legged subjects. For users looking for a more detailed analysis, certain graphs can be saved as ASCII and recordings may be saved in video format (AVI). Tekscan software works with current Windows based operating systems.

Quadruped Symmetry Table (ratio)	CullR01 Roxy DogWalkway
Stance Time Front / Hind	1.01
Stride Time Front / Hind	1.03
Stride Length Front / Hind	1.02
Stride Velocity Front / Hind	0.99
Max Force Front / Hind	1.25
Stance Time Left / Right	1.01
Stride Time Left / Right	0.98
Stride Length Left / Right	1.04
Stride Velocity Left / Right	1.06
Max Force Left / Right	0.80
Stance Time Left Front / Right Front	1.06
Stride Time Left Front / Right Front	0.98
Stride Length Left Front / Right Front	1.03
Stride Velocity Left Front / Right Front	1.04
Max Force Left Front / Right Front	0.65
Stance Time Left Hind / Right Hind	0.97
Stride Time Left Hind / Right Hind	0.98
Stride Length Left Hind / Right Hind	1.06
Stride Velocity Left Hind / Right Hind	1.08
Max Force Left Hind / Right Hind	1.03

Additional gait parameters are included for four-legged subjects and ratios are calculated between left front, left hind, right front, and right hind

Walkway Options

The Walkway's design allows you to choose the sensing length and sensor resolution that best suits your needs. Sensor resolutions are available in standard, high and very high resolution to accommodate various animal sizes and weights. A protective covering may be placed over the platform for ease of cleaning without perturbing gait. See the Walkway datasheet for more information and system specs.

Walkway 6 (WE6) is shown here.

Tekscan®

> **CALL TODAY FOR A DEMONSTRATION!**