

REAL-TIME FOOT PRESSURE ANALYSIS

Application: Golf Swing

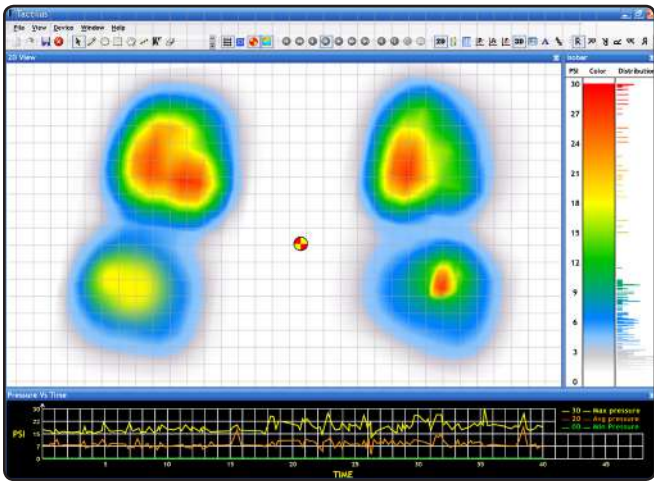
Zoomed view of individual sensor points



Golf swing assessment sensor element

Professional golfers and instructors know that the distribution of weight and balance are key components of power in a swing. They realize that speed and power come from the lower body and not just the hands and the arms, but they lacked one vital tool to help them take action to shift their body weight. Now the balance of a golfer's feet as it goes through a swing can be revealed and quantified thanks to the Tactilus®. This technology gives suppliers of sports motion analysis systems, golf club manufacturers, instructors and others in the industry the tools they need to easily analyze these important swing dynamics.

Tactilus® Technology: Tactilus® is a matrix based tactile surface sensor. Essentially an “electronic skin” that records and interprets pressure distribution and magnitude between any two contacting or mating surfaces and assimilates that data collected into a powerful, yet user-friendly, Windows® based tool kit. Each Tactilus® sensor is carefully assembled to exacting tolerances and individually calibrated and serialized. Tactilus® employs sophisticated mathematical algorithms that intelligently separate signal from noise, and advanced electronic shielding techniques to maximize environmental immunity to noise, temperature and humidity. Our proprietary sensor design ensures the most robust sensor in the industry - an investment that will sustain thousands of uses.



Characterization of pressure distribution and magnitude of the golfer's feet upon the sensor element

“The speed and size of this product has allowed us to create a truly differentiated product in our market. I think the bottom line is that you delivered and you and your team should be commended for your efforts and innovation.”

~Mark Andrews, CEO, Golfers Quest

SPECIFICATIONS

Technology	Piezoresistive
Surface Pressure Range	0 - 30 PSI (0 - 2.10 kg/cm ²)
Grid Size	32 x 32
Sensing Points	1,024
Total Sensing Area	Customizable to application
Scan Speed	Up to 100 hertz
Spatial Resolution	Custom from 0.39 in (10 mm)
Thickness	30 mils (0.76 mm)
Accuracy	± 10%