The only pressure we place is on ourselves.

Tekscan delivers the most advanced high-resolution, thin-film tactile pressure measurement systems in the world. Our systems are accurate, simple to use, and cost effective. Through superior service, we identify the needs of our customers and provide solutions of the highest quality and value.

Applications:
- Foot function & pathomechanics
- Gait analysis & disorders
- Posture analysis & balance disorders
- Orthotics & prosthetics
- Diabetes, wounds, slippers, & burns
- Vascular & pressure garment
- Cushioning, seating, & support surface
- Rehabilitation & physical therapy
- Footwear (orthopedic, sports, casual, dress, & fashion)
- Sports injury & performance
- Surgical & orthopedic evaluation
- Joint analysis
- Veterinary medicine
- Retail
- Dental occlusion
- And more!
Trusted the world over for our solutions. And for our service.

Founded in 1987, Tekscan is the world’s leading provider of advanced high-resolution, thin film tactile pressure measurement systems. Our leadership is proven by the number of systems sold, research projects conducted, papers published, and satisfied customers. We work with many of the world’s most prestigious institutions, including NASA, Mayo Clinic, Children’s Hospital, and Duke University. Our systems are used by medical practitioners and researchers to assess numerous health issues, especially those related to foot, gait, posture, rehabilitation, ergonomics, seating, and positioning. Manufacturers of orthotics, prosthetics, insoles, footwear, and cushions utilize our technology to develop new and improved products. Businesses also make use of our systems as a sales and marketing tool to capture customers’ attention and to improve the selling process.

In addition to delivering the most advanced solutions, we provide the highest level of customer support, training, and education. We accomplish this through lectures, presentations, workshops, seminars, teleconferencing, and web conferencing. Our commitment is to provide you with the support necessary to reap the greatest rewards from your Tekscan system.

For tactile pressure and force sensors: Thin is in.

At the heart of each Tekscan system is a patented high-resolution, thin film tactile pressure/force sensing array. Developed by scientists from MIT, the extremely thin (~0.1 mm) and flexible sensor is the standard by which all others are measured. The ability to conduct non-intrusive measurements and patient exams is the key advantage of this thinness. Sensors are available in a wide range of shapes, sizes, and spatial resolutions, capable of measuring pressures ranging from 5 mmHg (0.1 PSI) to 175 MPa (25,000 PSI). Over 200 standard designs are available. Additionally, custom sensors can be developed to provide you with the right solution for specific requirements.

Clinical: Improved quality care and outcomes.

Tekscan solutions open up many new and exciting avenues to physicians and clinicians. The systems supply valuable data, helping you to better understand and analyze the condition of patients so that you can offer the best prescriptions and treatment outcomes. The user-friendly software enables you to easily document outcomes, which you can use for patient education, insurance claims, and physician’s referrals. A Tekscan system helps improve treatment outcomes, increase patient referrals, and maximize your profits.

Research: Advanced data and analysis.

Our tactile pressure sensing technology plays a key role in research and development all over the world. Footwear, orthotics, and cushion manufacturers are constantly developing new designs and improved materials for their products. Tekscan systems play a major role in their efforts since our high-resolution sensors are designed to provide data that is accurate and reliable. User-friendly software makes data display and manipulation simple for analysis and interpretation. Tekscan systems are compatible with other measurement devices such as EMG, video, and forceplate, further enhancing the quality of data at your disposal. As a result, manufacturers develop more effective products, and researchers have the data necessary for their analysis.
“The F-Scan system has completely changed my understanding of the foot’s function. I can now “see” how small changes in a custom orthotic device greatly affect foot function. I am able to make step-by-step changes and modifications to my patients’ orthotics and know immediately whether it has bettered or worsened their condition. Because of my work with the F-Scan system, I enjoy my podiatric practice again. It is extremely fulfilling to help someone eliminate their limping gait and greatly decrease their pain.”

Bruce Williams, DPM
Merrillville, IN

“I found the F-Socket technology by Tekscan to be an excellent research tool for objective evaluation of new prosthetic components. It became a valuable part of the experimental routine for me and colleagues at the Albrecht Rehabilitation Center, St. Petersburg, Russia.”

Mark Pitkin, Ph.D.
Director, Gait Laboratory
New England Sinai Hospital and Rehabilitation Center
Stoughton, MA
Research Associate Professor
Tufts University
School of Medicine
Boston, MA

“One power of the F-Scan system lies in the immediate and totally obvious visual feedback. Most cases are definitive even without referring to the staggering ability of the software to represent the data in any way you can think of. This simplicity combined with the fact that it is a foolproof means of pre- and post-testing treatment methodology makes this system invaluable to the clinicians.”

Larry Pace
PTA, CSCS
USA Triathlon Coach
SATORI Physical Therapy & PACE Sports Training
Orange, CA

“[...]”
F-Scan® System
F-Scan provides high-resolution static pressure measurement, which captures in-shoe, barefoot, prosthetic, and seat data with the convenience of one measurement tool. Tekscan is renowned for its flexibility for improving prostheses and best-practice design and accuracy.

BPMS™
BPMS is the most advanced seat and bed pressure management system. VersaTek is a high-resolution, paper-thin sensor system that provides force and pressure data using sensors placed inside the shoe to address foot, leg, or heel pain leading to injury. These two factors can now be quantified and assessed in the athlete with the F-Scan Mobile.

HR Mat™ System
HR Mat is a high-resolution version of SaddleScan. The end result is a powerful tool that supports visual and analytical software. This enhances the utility of collected data even further so you can make the best assessments possible.

K-Scan® System
K-Scan provides state-of-the-art static pressure sensing capabilities to address orthopedic implants and articulating joints.

F-Socket™ System
F-Socket provides in-socket pressures and forces for improving prostheses and better-fitting sockets.

Grip™ System
Grip provides static and dynamic pressure sensing capabilities to address hand and finger gripping applications.

F-Scan® Mobile
F-Scan Mobile pressure data with a synchronized video file.

Custom Sensor Designs
In addition to offering over 200 different standard sensors, Tekscan is renowned for its ability to produce custom sensors for specific applications.

Optional Add-Ons
Pressure sensing floor mats (MatScan or HR Mat), Prosthetic (F-Socket), and seat and bed sensors (CONFORMat and BPMS) can be added to the F-Scan system. Other combinations and upgrades of systems are available.

Research™ Software
This software is available as an optional add-on to Tekscan’s foot pressure measurement systems. Research software provides enhanced data capture and analysis features and more to meet the researcher’s needs.

Video Synch™
For all systems, video sequences can be recorded and synchronized with your pressure data and visualized in Tekscan software. This enhances the utility of collected data even further so you can make the best assessments possible.

TAM™ for F-Scan
Timing Analysis Module (TAM) is an add-on software module to F-Scan. TAM computes data with respect to foot function and the gait cycle. Data is then displayed, providing comparisons between left and right feet, to normal ranged foot function, and to gait pattern.

STAM™ for MatScan or HR Mat
Stance Timing Analysis Module (STAM) is an add-on software module to the floor mats system. STAM computes data relative to foot function during stance. Data is then displayed, providing comparisons between left and right feet and to normal ranged foot function during stance.

CoMAlay® for F-Scan
Center of Mass Analysis (CoM analysis) is an add-on software module to F-Scan. It is designed to calculate and compare parameters associated with the behavior and performance of the body’s center of mass, including symmetry between the left and right sides, purity, and energy efficiency of gait. Conditions include normal, pathological, and treated foot function and gait.

SAM™ Sway Analysis
Sway Analysis Module (SAM) is an add-on software module for Tekscan’s foot pressure measurement systems. It analyzes sway, balance, and posture by measuring key parameters, sensors, and vital signs (by the naked eye while presenting data in a clean and easy-to-read format).