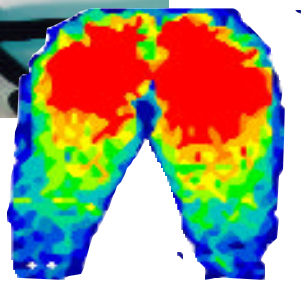
# The *I-Scan*® System

## *Automotive Applications*

**The *I-Scan*® System by Tekscan** is a versatile pressure measurement system utilizing Tekscan's patented thin-film pressure sensing technology. At the system's heart is a high resolution (248 sensels/cm$^2$), matrix based tactile sensor capable of measuring pressures as low as 5 mmHg and as high as 174 MPa. With the help of Tekscan's qualified Sales and Engineering Support Team, each system is configured to meet specific application requirements.

Tekscan's technology plays a key role in research and development in a wide range of industries, including automotive. Tekscan's ability to deliver paper-thin, minimally intrusive sensors and high sampling rates (up to 10 KHz) has led us to solve measurement challenges as diverse as door "slam" forces, airbag impacts, and brake pad pressure profiles. Tekscan's wide pressure range and sensor have also enabled us to pursue applications as varied as designing comfortable seats to analyzing clamp loads of engine gaskets. Tekscan's unique systems approach has saved companies millions of dollars in design, design verification and re-engineering costs.



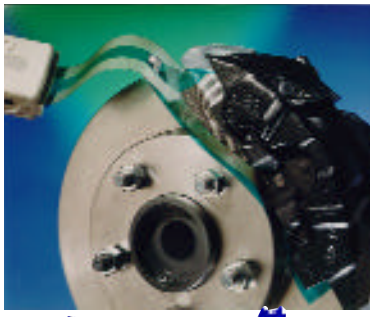
Automotive Seat
Comfort Studies

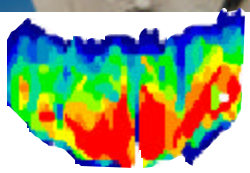
Heat Gasket/Engine
Block Clamp Load
Analysis

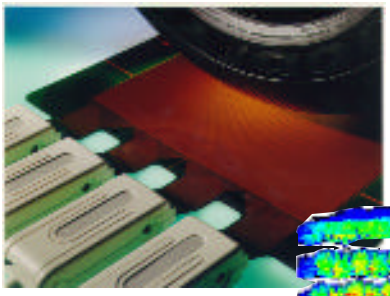
## Automotive Applications

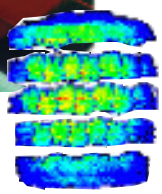
Fastener & Clamp Load Analysis
High Speed Impact & Crash Studies
Windshield Wiper Blade
Clutch & Friction Plate Profiles
Hose Clamp & Crimp Studies
Trim Panel & Adhesive Tape Force
Catalytic Converter "Canning"
Spring, Strut & Jounce Bumper Load Profiles
Airbag Deployment Studies
Seat Belt Pressure & Comfort Studies
Tire Foot Print

Brake Pad/Rotor Surface
Pressure Distribution

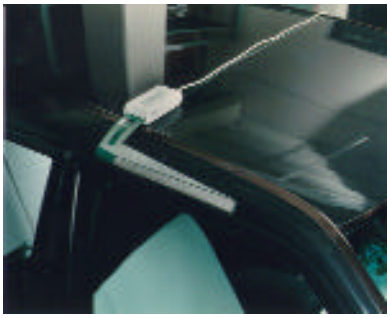


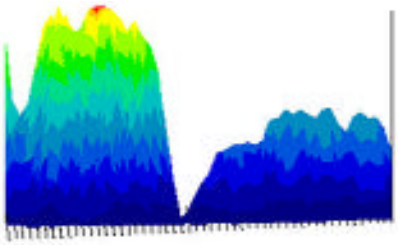






Tire Footprint
Pressure Distribution





Door Seal Force Distribution Studies

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