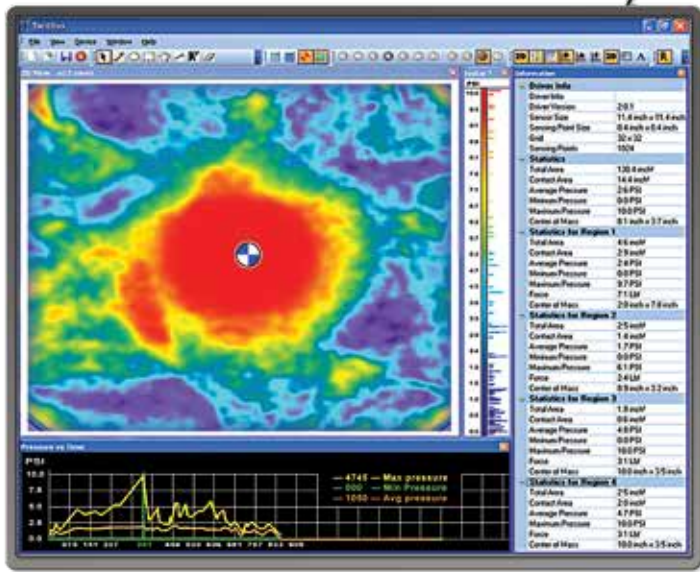


# REAL-TIME TACTILE SURFACE PRESSURE MAPPING

## Application: Press



Tactilus® press sensor & electronic controller



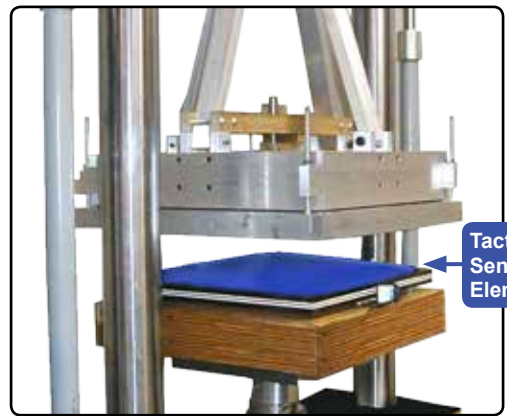
Characterization of pressure distribution and magnitude across a lamination press

SENSOR SPECIFICATIONS	
Technology	Piezoresistive
Pressure Range	0.1 - 200 PSI (0.007 - 14.1 kg/cm <sup>2</sup> )
Array Size	Up to 32 x 32 lines
Sensing Points	Up to 1,024
Total Sensing Area	Customizable to application
Scan Speed	Up to 90 hertz
Spatial Resolution	Custom from 0.39 in (10 mm)
Thickness	23.6 mils (0.6 mm)
Accuracy	± 10%
Repeatability	± 2%
Hysteresis	± 5%
Non-linearity	± 1.5%

System includes: sensor element, electronic controller, software and cables.

The Tactilus® press surface analysis system is designed to allow the engineer to measure **actual contact forces and pressure distribution between platens of any type of pressing or forming machine**. Unlike conventional pressure transducers and load cells, Tactilus® is extremely thin and is designed to be placed directly upon the active pressed surface — yielding unprecedented visualization of your surface pressure profile. Even a slight warping or misalignment of your press surfaces will result in yield reduction, product defects and misregistration leading to products returns and failures. Tactilus® cures that problem!

**ASK US ABOUT LEASING AND CONSULTING**



Side profile of a lamination press

Tactilus® Sensor Element

**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 Windows® based tool kit. Each Tactilus® sensor is carefully assembled to exacting tolerances and individually calibrated and serialized. The architectural philosophy of Tactilus® is modular allowing for portability, easy expansion, and simultaneous data collection of up to 4 discrete sensor pads. Tactilus® employs sophisticated mathematical algorithms that intelligently separate signal from noise, and advanced electronic shielding techniques to maximize the sensor’s resistance to noise, temperature and humidity.

*“Our primary proposition is to offer the client precisely what they require or need. Everything we design with respect to the physical sensor element as well as our GUI and DLLs can be completely tailored to your unique situation.”*

**Jeffrey G. Stark**  
CEO



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