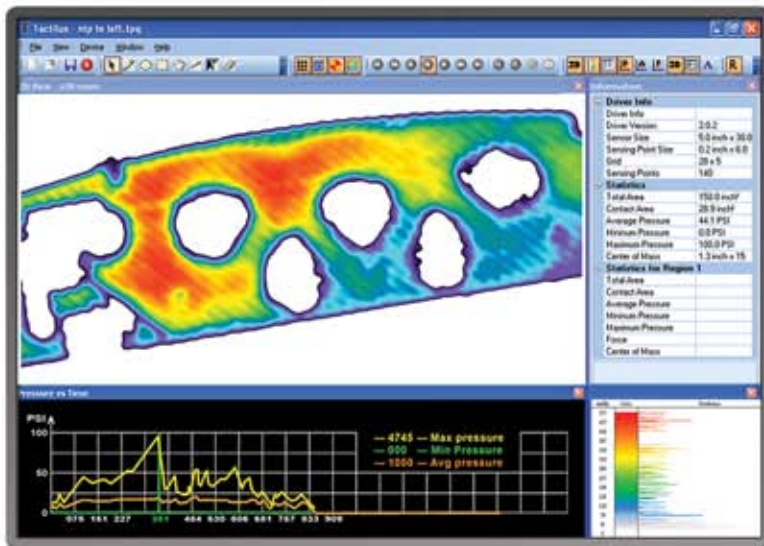
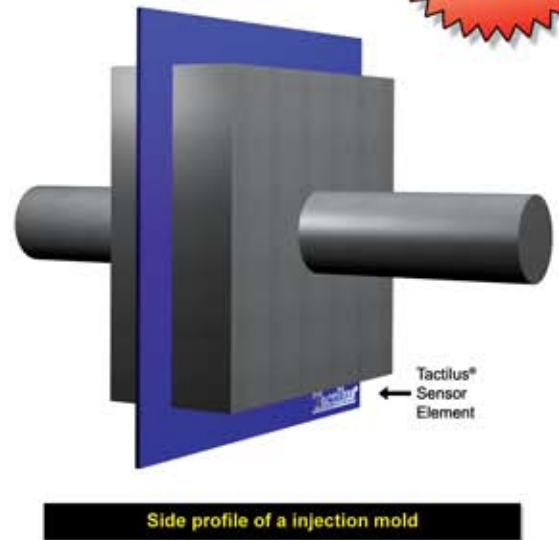


Application: Injection Molding



The Tactilus® injection molding analysis system allows an 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 paper thin and is designed to be placed directly upon the active pressed surface — yielding unprecedented visualization of your surface pressure profile.

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Characterization of pressure distribution and magnitude across an injection mold

SENSOR SPECIFICATIONS

Technology	piezoresistive
Pressure Range	0 - 500 PSI (0 - 35 kg/cm ²)
Array Size	Up to 32 x 32 lines
Sensing Points	Up to 1,024
Total Sensing Area	Customizable to application
Scan Speed	Up to 30 hertz
Spatial Resolution	Custom from 0.35 in (9 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.

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