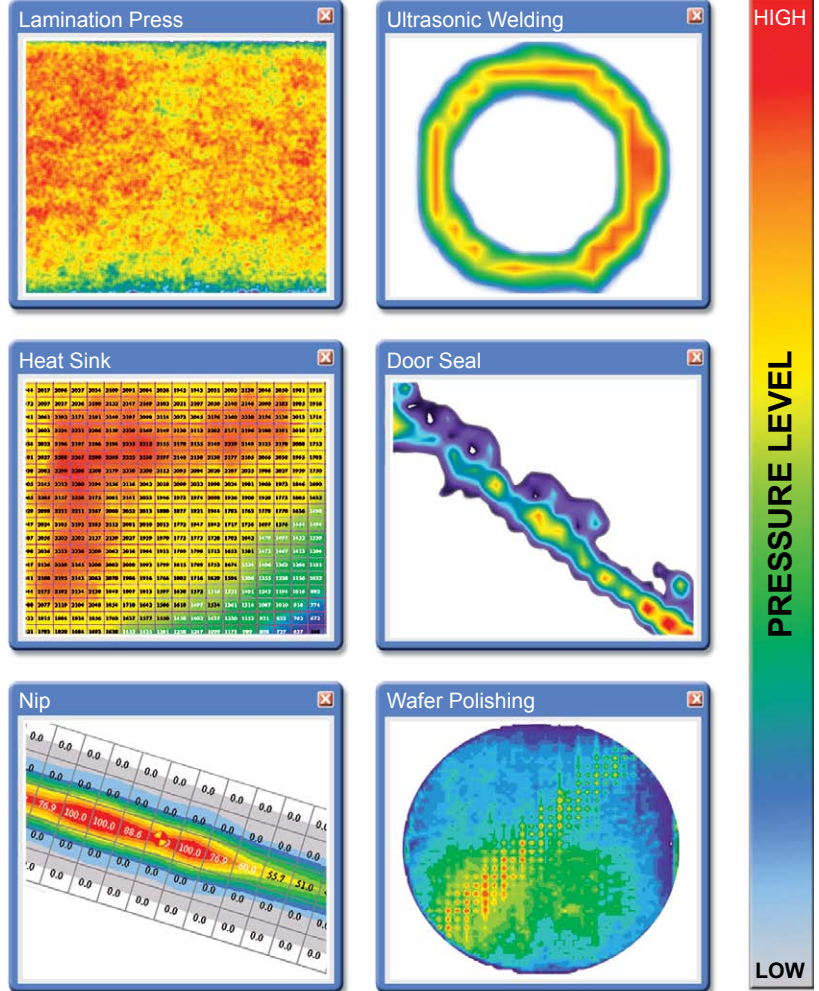


Tactilus® is a matrix-based tactile surface sensor - essentially an “electronic skin” that records and interprets pressure distribution and magnitude between any two contacting or mating surfaces and assimilates the collected data into a powerful Windows® based tool kit. Each Tactilus® sensor is carefully assembled to exacting tolerances and individually calibrated and serialized.

The architectural philosophy of Tactilus® is modular, allowing for portability, easy scalability, and simultaneous data collection from up to four discrete sensor pads. Tactilus® employs sophisticated mathematical algorithms that intelligently separate signal from noise, and advanced electronic shielding techniques maximize the sensor’s immunity to noise, temperature and humidity.

Tactilus® is a Windows® based sensor system that consists of a sensor element, signal conditioning electronics and software. Even an inexperienced user can benefit from the power of Tactilus® within minutes.

### Typical Applications Where Tactilus® Reveals Surface Contact Pressure



SPECIFICATIONS	
Technology	Piezoresistive / Resistive
Pressure Range	0.1 to 200 PSI (0.007 to 14.1 kg/cm <sup>2</sup> )
Array Size	Up to 32 x 32 lines
Thickness	From 12 mils (0.3 mm) & up
Area	Customizable from 0.16 in <sup>2</sup> to 1,900 in <sup>2</sup> (0.4 mm <sup>2</sup> to 12,250 cm <sup>2</sup> )
Scan Speed	Up to 1,000 hertz
Spatial Resolution	Customizable from 0.04 in (2 mm) & higher
Accuracy	± 10%
Repeatability	± 2%
Hysteresis	± 5%
Non-linearity	± 1.5%
Calibration	Pre-calibrated for specified pressure

