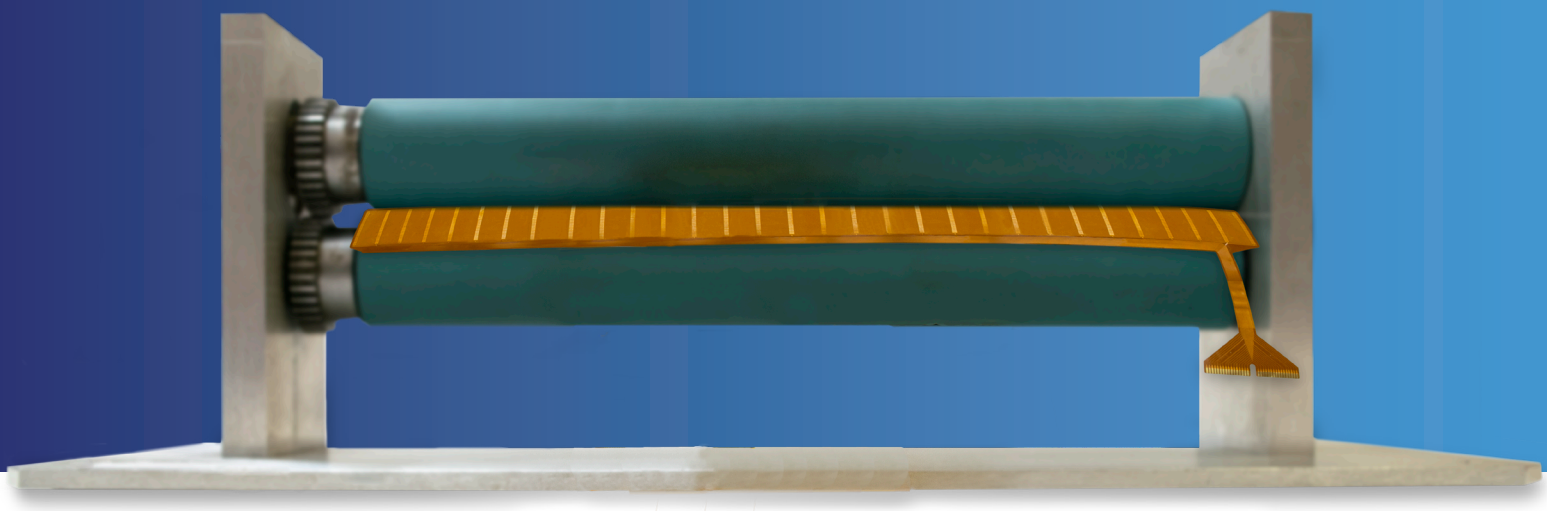
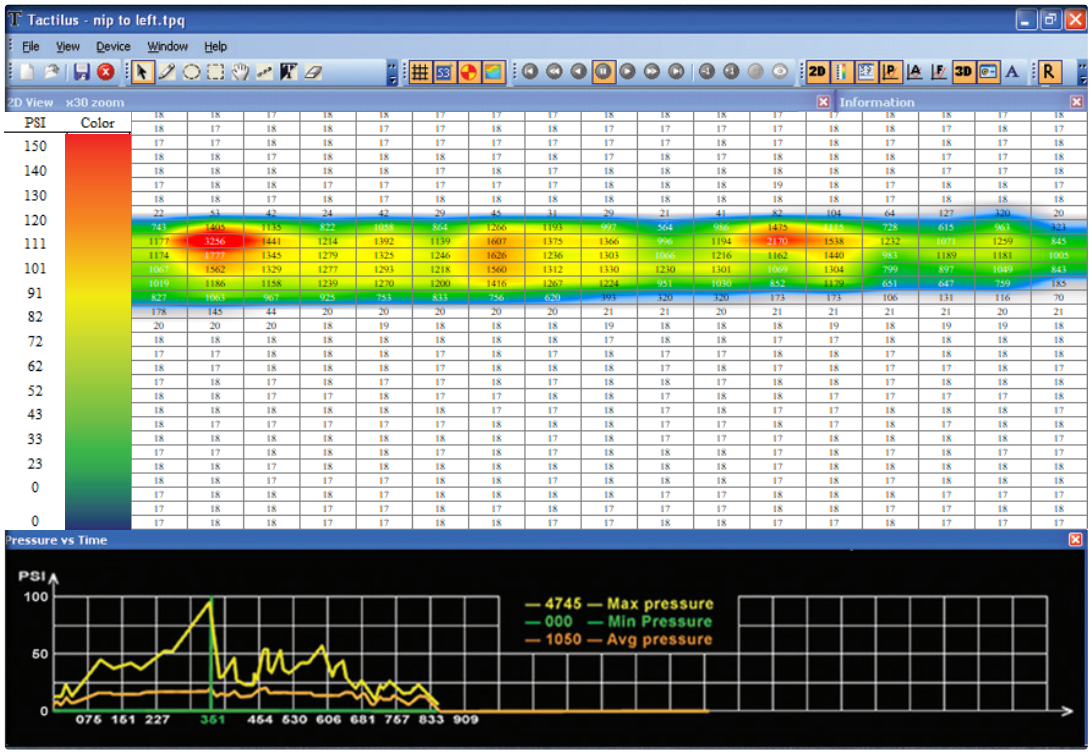
Tactilus®
*Nano-Polymer Core | **H-Series***

Application: Nip Pressure





Characterization of parallelism and magnitude across a nip

The Tactilus® nip measurement tool captures nip pressure and parallelism information from between any two mating rolls whether the surface is rubber, composite or metal.

Tactilus® is a real-time, static (rollers not rotating) sensor system that quickly and effortlessly allows for rapid nip contact pressure and distribution measurement. Even an inexperienced user will quickly gain valuable insight from Tactilus®. In just minutes, Tactilus® can be deployed across your nip interface and capture a wealth of valuable data.

The sensor is only one element of the overall Tactilus® system. Our user-friendly Windows® compatible software assimilates the information captured into intuitive, easy to interpret reports and images.

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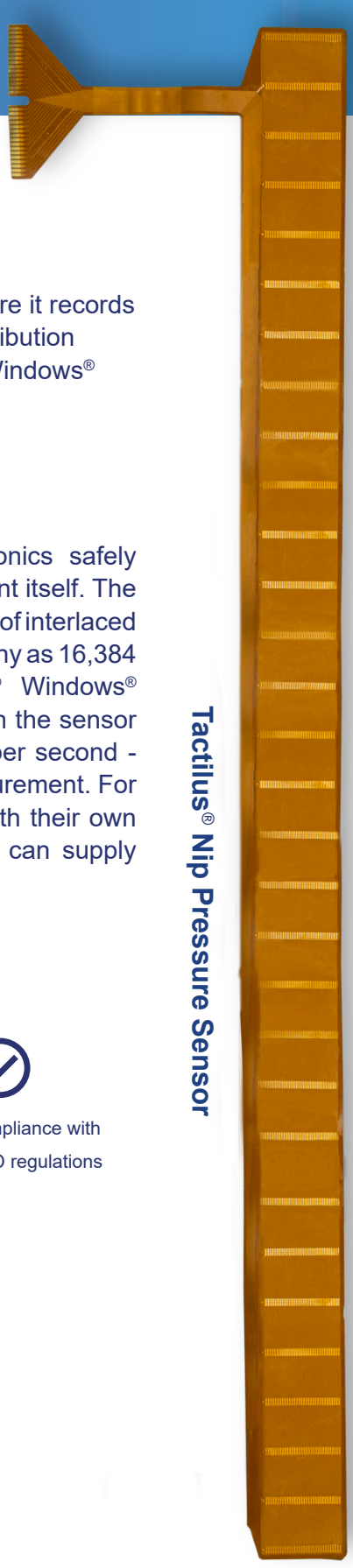

Tactilus® Nip Pressure Sensor

What it does

Tactilus® allows the user to capture and record pressure conditions occurring in between any two contacting or impacting surfaces in real time. The paper-thin Tactilus® sensor is actually placed at the contact interface where it records and assimilates both pressure distribution and pressure magnitude on your Windows® based computer.

The Innovation

Exciting advancements in conductive textiles have allowed us to develop a sensor that conforms better to your surface than ever before. Not only does the sensor conform better to curved surfaces but it stretches to alleviate shearing affects caused by shifting contact surfaces - an innovation that no other sensor company can touch! By biomimicking human skin we've taken surface contact pressure measurement to a whole new level.

Tactilus® now has all the electronics safely encapsulated on the sensor element itself. The Tactilus® sensor consists of a series of interlaced lines that create a matrix with as many as 16,384 unique sensing points. Tactilus® Windows® based software communicates with the sensor up to a theoretical 1,000 frames per second - fast enough for impact force measurement. For users desiring direct interfacing with their own control software Sensor Products can supply an API.

Benefits of Tactilus®

- Improving product yield
- Extending cover life
- Sharply reduced machine downtime
- Assuring compliance with GMP and ISO regulations

Specifications	
Technology	Nano-tube composite
Surface Pressure Range	0 - 150 PSI (0 - 10.5 kg/cm²)
Grid Size	32 x 32
Sensing Points	1,024
Total Sensing Area	Customizable up to 47 in. x 86 in. (120 cm x 218 cm)
Scan Speed	Up to 800 fps
Spatial Resolution	Custom from 0.5 in (1.3 cm)
Thickness	16 mils (0.4 mm)
Accuracy	± 10%
Repeatability	± 2%
Hysteresis	± 5%
Non-linearity	± 1.5%

TACTILE PRESSURE EXPERTS
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Updated 04-30-21