Powered By Tactilus®

WHEELCHAIR

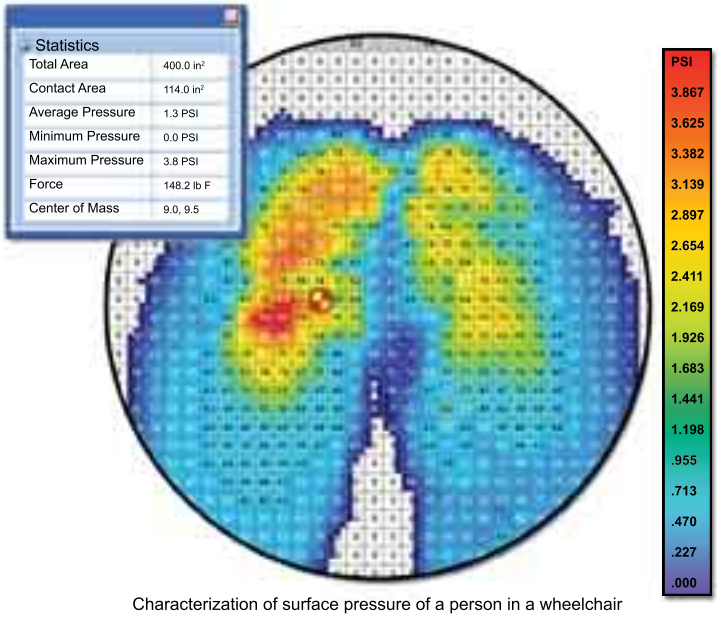
Real-Time Tactile Pressure Analysis

Bodyfitter® seat pad shown on a wheelchair

Tactilus® Bodyfitter® sensor system and software is specifically designed to allow the manufacturer, retailer or outfitter to measure pressure distribution and magnitude between the patient and the seating surface. Bodyfitter® also offers the dual capability of measuring **PRESSURE AND TEMPERATURE DISTRIBUTION**.

Bodyfitter® is the most economical, scientific and user-friendly pressure mapping system available today. With the designing-for-comfort™ predictive capabilities of Tactilus Bodyfitter® software we take comfort measurement to the next level. Surface pressure mapping is particularly beneficial for analysis of obese, geriatric, diabetic and low-mobility patients in identifying restricted blood flow from imbalanced pressure distribution and increased localized temperature, which is the primary cause of decubitus ulcers (bed sores).

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 environmental immunity to noise, temperature and humidity. Our proprietary sensor design ensures the most robust sensor in the industry - an investment that will sustain thousands of uses.



Characterization of surface pressure of a person in a wheelchair

POWERFUL MODULES

- Anthropometric Feature – reads and reports body attributes, and Somatotype
- Chiropractic Diagnostic Package
- Consumer Database - designed to track customers and salesman performance and response-to-sale ratios
- Languages – software in Spanish, Chinese, German and French
- Private Branding - name and indentia on hardware and software
- Handheld Remote Control Device
- Retail Environment Version – consumer oriented graphical user interface
- Retail Environment Version – touchscreen panel and graphical user interfaces
- Scientific Analysis Package
- Wireless Capability

SENSOR SPECIFICATIONS

Technology	Piezoresistive
Pressure Range	0 - 4 PSI (0 - 0.28 kg/cm²)
Grid Size	32 x 32
Sensing Points	1,024
Total Sensing Area	19" x 19" (48.3 x 48.3 cm²)
Scan Speed	Up to 30 Hz
Spatial Resolution	Custom from 0.5" (1.3 cm²)
Thickness	30 mils (0.7 mm)
Accuracy	± 10%
Repeatability	± 2%
Hysteresis	± 5%
Non-linearity	± 1.5%

TACTILE PRESSURE EXPERTS
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