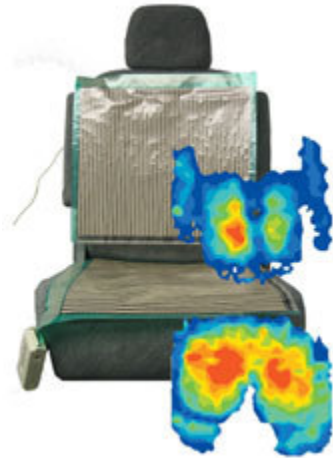
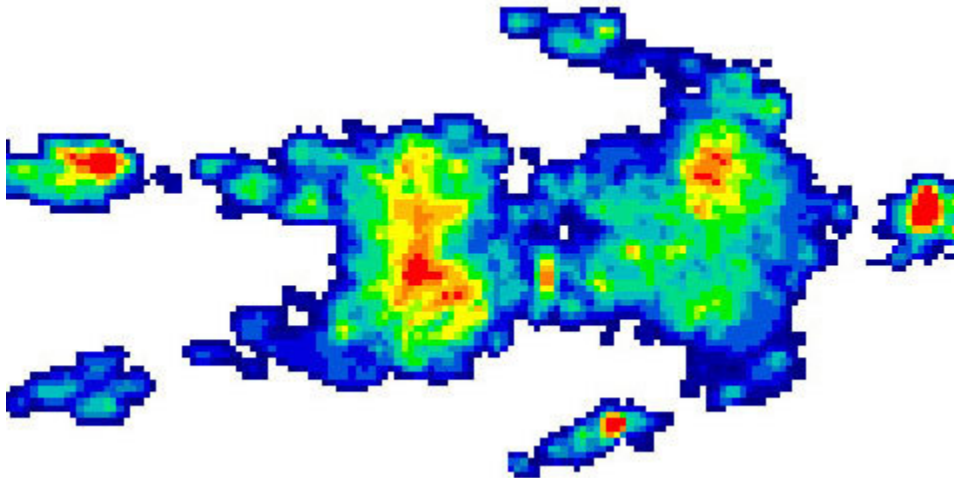


Advanced ClinSeat® System

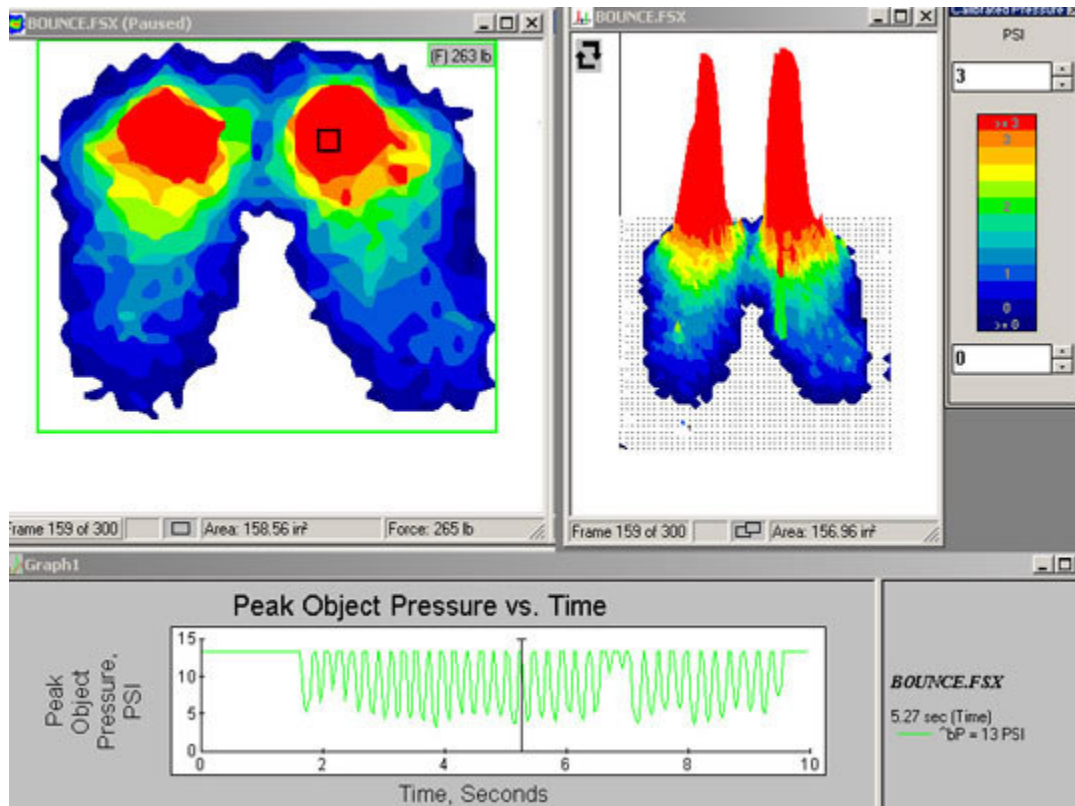


Advanced *ClinSeat* measures the pressure distribution of a human body on support surfaces such as seats, mattresses, cushions, and backrests. The system includes hardware, software, and thin-film pressure sensors. The sensors feature spatial resolutions as high as one sensing element/cm² and contains as many as 2016 individual sensing elements per sensor. The sensor's thinness enables the user to confidently incorporate the sensor into the application without altering the characteristics of the support surface. The combination of these factors enables precise measurement of the location and magnitude of peak pressures and overall pressure distribution patterns.

Advanced *ClinSeat* is built on a "modular" sensor construct concept. This means you can acquire a system in many ways from one sensor up to four or eight. This allows you to grow your Advanced *ClinSeat* as your needs expand, thus protecting your initial investment.



Advanced *ClinSeat*[®] Features



Software Features

- Capture dynamic pressure
- Record pressure output
- Play-back pressure "movies"
- Display real-time and recorded data as 2-D and 3-D images
- Display of pressure and force curves over time
- Export ASCII file capability
- Display data frame-by-frame, single, and/or multi-frame
- Isolate and analyze specific regions
- Display Center of Force and its trajectory
- View and compare multiple tests simultaneously
- And much, much, more!

Data Acquisition Electronics and Sensor to PC Interface

Every Tekscan Industrial system, including Advanced *ClinSeat*, uses a specially designed sensor interface electronic called a "handle". The handle connects to the sensor, gathers the data from the sensor, and then processes and sends this data to your computer. The handle also connects to

an interface on your PC. Tekscan offers a variety of PC interfaces including USB, parallel and PCI boards. Each interface product embodies sophisticated microprocessor based circuitry to control scanning sequence and frequency, adjust sensitivity, and optimize the performance of our sensors.

Sensor Description

Advanced *ClinSeat* is built on a “modular” sensor construct concept, this means you can acquire a system in many ways from one sensor up to four or eight, allowing you to grow your Advanced *ClinSeat* as your needs expand, thus protecting your initial investment.

Technology: Resistive

Calibration: With application of controlled device

Sensor Thickness: 0.004 in (0.1 mm)

Model [5315](#)

No. of Sensing Elements: 2,016

Spatial Density: 6.25 sensels/in² (1 sensel cm²)

Size of Sensor: 19.2 in x 16.8 in (488 mm x 427 mm)

Pressure Ranges: 0-5 or 0-30 PSI (other ranges available)

Model [5400N](#)

No. of Sensing Elements: 1,768

Spatial Density: 1.95 sensels/in² (0.3 sensel cm²)

Size of Sensor: 22.7 in x 34.8 in (578 mm x 884 mm)

Pressure Ranges: 0-4 PSI (other ranges available)



#5315 Sensor Configurations		
<i># of pads</i>	<i>Size</i>	<i># of Sensing Elements</i>
1	19.2in x 16.8in (488 mm x 427 mm)	2,016
2	38.4in x 16.8in (976 mm x 427 mm)	4,032
4	76.8in x 16.8in (1,952 mm x 427 mm)	8,064
8	76.8in x 33.6in (1,952 mm x 854 mm)	16,128

#5400N Sensor Configurations		
<i># of pads</i>	<i>Size</i>	<i># of Sensing Elements</i>
1	22.7in x 34.8in (578 mm x 884 mm)	1,768
2	22.7in x 69.6in (578 mm x 1,768 mm)	3,536
3	68.1in x 34.8in (1,734 mm x 884 mm)	5,304
4	90.8in x 34.8in (2,312 mm x 884 mm)	7,072

Add-On Capabilities

Tekscan systems provide the flexibility of adding on capabilities as your needs evolve to enhance data analysis and interpretation. Please ask us about any of the add-on options to the Advanced *ClinSeat* system listed below:

Virtual System Architecture™ (VSA) - Larger areas are easily accommodated with our VSA software solution. VSA allows you to view multiple sensors, positioned adjacent to one another, creating a continuous measurement region.

Video Synch™ - Video sequences can be recorded and synchronized with your pressure data and visualized in Tekscan software, enhancing the utility of collected data.

Equilibration/Calibration devices - Pneumatic devices apply a uniform pressure to the active area of a sensor to normalize output of each sensing element. The system electronically compensates for variation in individual sensing elements.