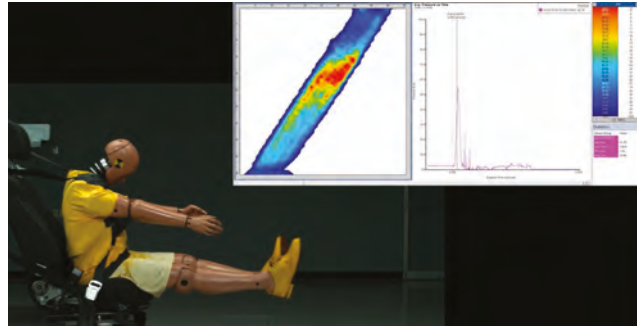




# High-speed pressure mapping

**519** In recent years there have been many remarkable innovations in passive safety and passenger protection in automobiles. At the same time, consumer demands and legislative safety requirements have become more complex. Validating and optimizing passenger safety innovations requires extensive and expensive testing. This does not always provide the necessary empirical data to verify design performance, and existing technology is not capable of providing detailed information regarding the distribution of forces between a passenger and the restraint device or seat surface. That is, until now.

Xsensor's HS Impact system is the tool missing from physical testing that verifies the performance of passive safety features. Never before has the



automotive industry had the ability to measure pressure profiles at such high speeds.

Acquiring accurate pressure information during sudden impacts requires fast and responsive pressure imaging sensors combined with powerful software tools. Building on its in-depth expertise in pressure sensing arrays for automotive design

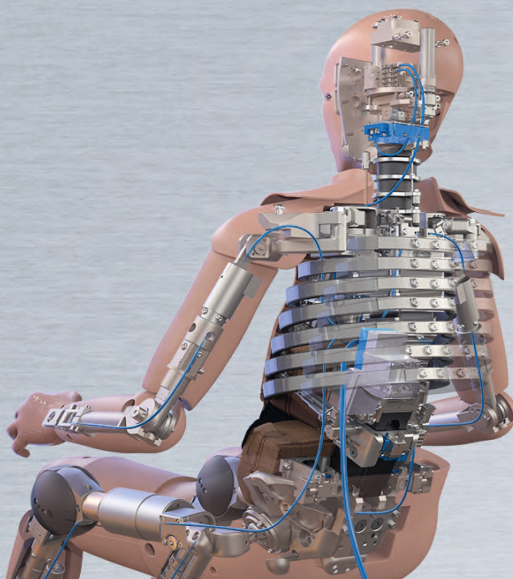
applications, Xsensor has developed sensors, software and electronics specifically for automotive safety testing. HS Impact provides accurate pressure data on surface pressures before, at and after impact, allowing engineers to isolate issues and implement effective changes that can then be measured and repeated.

The high-speed pressure mapping sensors accurately measure the pressure distribution between a passenger and the restraint devices and seat surfaces during vehicle impact testing. The sensors capture high resolution data at over 2,000fps, enabling safety engineers to visualize and measure interface pressures during the entire impact event.

HS Impact sensors are easily integrated into existing impact tests without any change to the setup or effect on existing measurements. These sensors have been successfully tested with Tier 1 automotive manufacturers, leading independent test facilities and IIHS labs.

**XSENSOR Technology**

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