

HS & X3 Tire Systems

Dynamic Tire & Tire Footprint Testing

Our High-Speed (HS) and X3 Tire systems provide tire design and test engineers with high-resolution contact patch data that is critical to understanding tire performance.

Measuring pressure on tire surfaces of passenger vehicles, commercial vehicles, heavy equipment used in agriculture, mining, forestry, and construction in real conditions is hard — and even harder on a race track.

KEY BENEFITS

DYNAMIC ON-THE-TRACK CONDITIONS

- Understand the performance of tires in fully-dynamic conditions with high-speed sensors that provide high-quality data and can be deployed in real-world conditions of speed, temperature, incline, tire angle, and on-the-road or off-road surface.

STATIC TIRE FOOTPRINT TESTING

- Profile tires, perform tread contact analysis, and understand tire bead pressures for passenger and commercial vehicles with our high-resolution tire sensors.

HIGH-RESOLUTION, RELIABLE TESTING

- Accurate, reliable sensors maintain their accuracy within ± 5 percent, ensuring your data is consistent.
- High-resolution sensors capture fine tire tread features and record at over 450 Hz, capturing multiple footprint images up to 150 km/h.
- Flexible platforms are easy to set-up and fully mobile for multi-location testing.
- For OTR and industrial tires, large-scale sensors provide detailed footprint data for tires over three metres in diameter and can be used sub-soil.
- Design and test engineers can use the Pro software to assess pressure profiles and make specific measurements and calculations which enable them to effectively compare tire mechanics.



HS & X3 TIRE SYSTEMS SPECIFICATIONS

SENSOR	RESOLUTION MM (IN)	USE CASE	PRESSURE RANGE N/CM2 (PSI)	SENSING AREA CM X CM (IN X IN)
IX500:256.256.22	1.15 (0.045)	Passenger Vehicle Tire (High-Resolution)	6.9 - 206 (10 - 300)	29.4 x 29.4 (11.6 x 11.6)
IX500:256.256.16	1.6 (0.063)	Passenger Vehicle Tire	6.9 - 206 (10 - 300)	40.6 x 40.6 (16 x 16)
IX500:192.192.05	5.08 (0.2)	Agricultural Vehicle Tire	6.9 - 206 (10 - 300)	97.5 x 97.5 (38.4 x 38.4)
IX500:128.128.05	5.08 (0.2)	Off-Highway Vehicle Tire	6.9 - 206 (10 - 300)	65 x 65 (25.6 x 25.6)
IX510:3.64.05-10*	5.08 (0.2)	Tire Bead	6.9 - 353 (10 - 512)	1.5 (0.6)



High-resolution sensors with 1.15 mm sensels provide precise details in even the smallest of tire features.

OUR PLATFORM INTELLIGENT DYNAMIC SENSING

The platform behind our vehicle safety testing products, Intelligent Dynamic Sensing (IDS), enables precise measurements and features highly-detailed visualizations and smart data with AI-powered analysis — resulting in optimized performance, comfort, and safety.



Maximum performance sensing



Real-time data measurement and highest-quality visualizations



AI-powered data analysis and optimization

XSENSOR

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