

Saddle Pressure System

Equestrian Saddle Measurement

The Saddle Pressure Measurement System allows saddle fitters, coaches, and equestrians to improve saddle fitting and develop proper seating positions.

While in motion, horses experience higher pressure on their backs and shoulders from riders. Without a clear understanding of how a saddle fits during activity, horses may be at risk of developing painful and costly injuries.



KEY BENEFITS

ACCURATE, RELIABLE, AND REPEATABLE TESTING

- Measure and record the pressure distribution between saddle and horse and display data in real-time with outstanding accuracy and reliability.
- Get insights into saddle fitting, rider balance, and rider technique with high-resolution pressure data.

FLEXIBLE SENSOR DESIGN

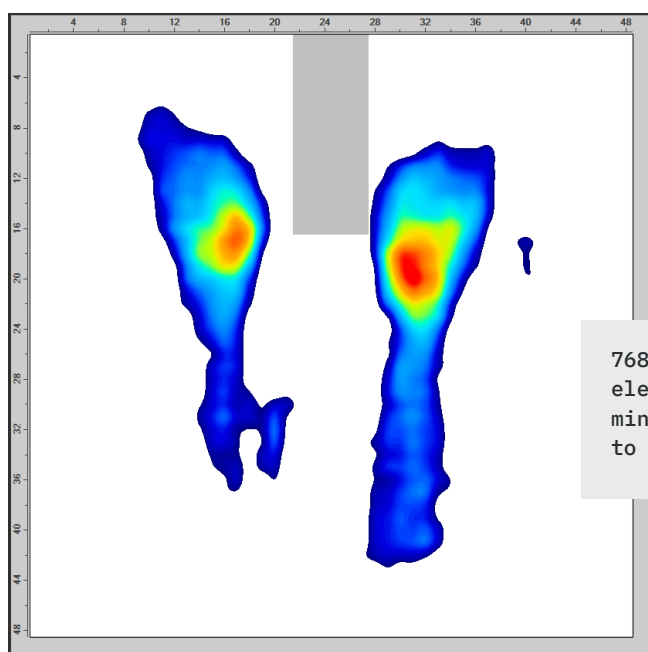
- Lightweight, waterproof, and durable urethane fabric cover provides extra protection required for equestrian applications; easy to clean and maintain.
- The thin, conformable sensor was designed with a custom cut-out to allow for easy contouring of a horse's withers. Can be used with a variety of saddles, including English and Western saddles.
- Bluetooth® electronics ensure the entire system is virtually undetectable to both rider and horse.

STATIC & DYNAMIC PRESSURE MEASUREMENT

- Analyze high-resolution 2D or 3D images and recordings to identify peak pressures. Compare individual images or dynamic recordings.
- Save valuable production time with fast set-up and easy-to-interpret measurement visualizations.

SADDLE PRESSURE SYSTEM SPECIFICATIONS

SENSOR	
Accuracy:	± 5%
Thickness: (Sensing area, uncompressed)	1 mm (0.04 in)
Pressure Range:	5-200 mmHg
Resolution:	12.7 mm (0.5 in)
Size:	762 x 813 mm (30 x 32 in)
Sensing Area:	610 x 610 mm (24 x 24 in)



768 diamond-shaped sensing elements optimize channels and minimize border widths (converts to 2,976 displayed sensing points)

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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