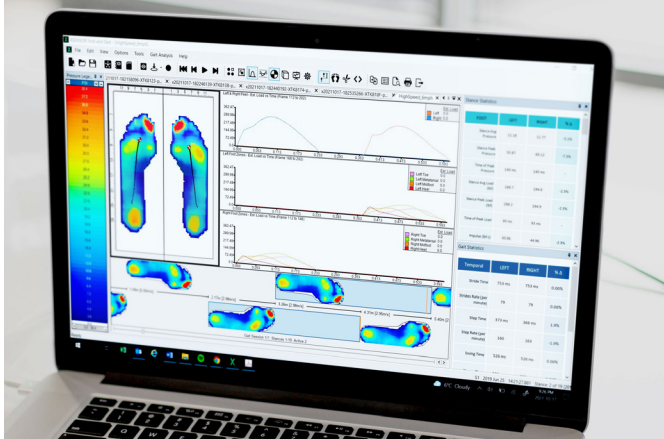# Intelligent Insoles
Clinical

Validate Treatment Decisions

The Intelligent Insoles | Clinical is a plantar pressure and gait measurement system that allows clinicians to quantify loading, motion, and footwear performance with the ability to validate treatment plans that result in improved patient outcomes.

Measurement tools are critical, particularly for those with reduced foot sensation. Improving gait and footwear performance requires practical measurement of baseline, progress, and intervention effectiveness — but without the ability to easily quantify changes, there is no way to validate the improvements in functional gait, loading, comfort, and safety.

KEY BENEFITS

CAPTURE PRESSURE & GAIT

- High-quality plantar pressure data allows clinicians to confidently zero-in on pressure and load concerns.
- Integrated IMU and pressure data provide accurate temporal measurements for functional gait assessment.
- Capture natural gait in minutes with reliable wireless sensors. Easily view live pressure and gait data in real-world settings.

EASILY MEASURE & VISUALIZE

- Practical, easy-to-use software tools help visualize pressure distribution, CoP, and gait lines.
- View and analyze plantar pressures in real-time and validate treatment plans.
- Automated stance detection and detailed statistics simplify single or multi-step gait analysis.

ANALYZE & COMPARE

- Make confident diagnoses with detailed plantar pressure and gait measurements. Easily customize visualizations and statistics with flexible zone tools.
- Detect and quantify stride variations with intelligent gait assessment and visual analysis tools.
- Validate interventions with powerful automated comparison features and easily generate detailed reports.

INTELLIGENT INSOLES | CLINICAL SPECIFICATIONS

INSOLE SENSOR	
Accuracy:	± 5%
Thickness:	< 2.0 mm
Pressure Range:	1-128 psi, 0.7-88.3 N/cm²
Resolution (Varies by shoe size):	7 mm (235 sensels/sensor)

ELECTRONICS - ON-SHOE	
Sampling Rate:	150 Hz
Wireless:	Bluetooth
IMU:	6-axis
Size:	1.7 cm x 4 cm x 5.5 cm
Weight:	42 g

- Flexible, full-featured software designed with clinicians in mind
- High-resolution 2D and 3D images
- Customizable graph and statistics presentation
- Intelligent gait analysis
- Automated compare mode
- User defined foot zone templates
- Tailor-made report formats

SENSOR SIZING	XXS	XS	S	M	L	XL	XXL
US (Men)	2/3	4/5	6/7	8/9	10/11	12/13	14/15
US (Women)	3.5/4.5	5.5/6.5	7.5/8.5	9.5/10.5	11.5/12.5	13.5/14.5	15.5/16.5
EU (Unisex)	33/34	36/37	38/39	41/42	43/44	45/46	47/48
JAPAN (Unisex)	20/21	22/23	24/25	26/27	28/29	30/31	32/33

OUR PLATFORM

INTELLIGENT DYNAMIC SENSING

The platform behind our human performance 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