



# Pressure Analysis

Pressure Distribution Platform Integration

- ◆ Gait, Running, and Balance Testing
- ◆ Temporospatial Gait Parameters
- ◆ Plantar Pressure Zone Segmentation

NORAXON®

# Precise Pressure Analysis

## Understand how pressure moves through each step.

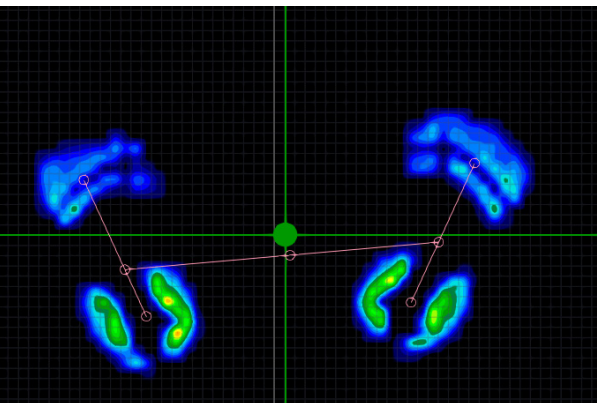
Noraxon's instrumented treadmills and pressure platforms use individually calibrated capacitive sensors to deliver accurate pressure distribution data, enabling detailed plantar pressure mapping during static and dynamic assessments.



### Capture pressure data using:

 Instrumented Treadmills

 zebris Platforms and Walkways



### KEY FEATURES:

- ▶▶ High-resolution pressure sensor matrix
- ▶▶ Individually calibrated capacitive sensors
- ▶▶ Measure with shoes, orthotics, or barefoot
- ▶▶ Synchronize with EMG, 3D kinematics, and video
- ▶▶ Multiple size and configurations available

## Built for Real-World Applications

Use plantar pressure data to better understand movement across clinical, research, and performance settings.



**Rehabilitation  
& Return to Play**



**Balance & Sway  
Analysis**



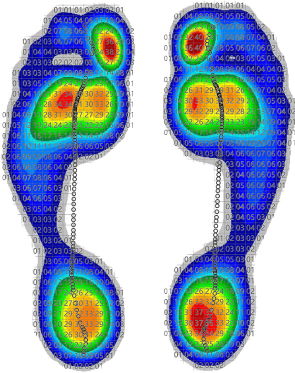
**Gait  
Analysis**



**Running Health &  
Injury Screening**

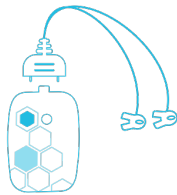
# All-in-One Software Platform

Noraxon's software platform enables the visualization, analysis, and reporting of plantar pressure data within a single environment.



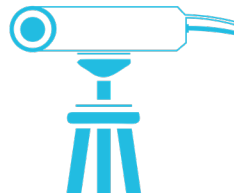
- Real-time 3D pressure animation and CoP visualization
- Vertical force & pressure metrics
- Automatic left-right step detection
- Object detection & removal (canes, walkers, etc.)
- Customizable reports
- Plantar pressure zone analysis

## Synchronize Measurement Across Devices



### EMG

Muscle Activation Timing



### Video

Real-Time Visual Feedback  
& Markerless Tracking



### 3D Motion Capture

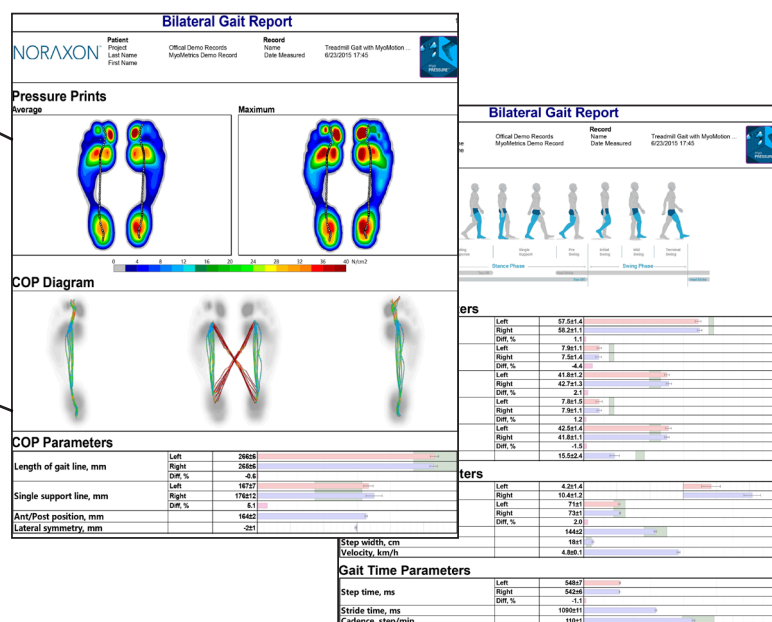
Movement Kinematics

## Clear, Actionable Reporting

Generate clear, customizable reports to review and share pressure data.

Analyze pressure distribution and gait line

Compare CoP traces and parameters



Analyze temporospatial gait parameters and symmetry

## TREADMILLS



\*\* Black Available



\*\* Black Available

	<b>PhysTread*</b> Rehabilitation <sup>^</sup>	<b>KinTread*</b> Performance <sup>^</sup>
<b>Treadmill Dimensions</b> L x W x H	209 x 86 x 131 cm (82.28 x 33.86 x 51.57 in)	230 x 105 x 145 cm (90.55 x 41.34 x 57.09 in)
<b>Belt Size</b>	150 x 50 cm	170 x 65 cm
<b>Motor</b>	3.0 HP <sup>+</sup>	4.5 HP <sup>+</sup>
<b>Speed</b>	0.1-18 km/h (0.06-11.18 mph)	0.1-25 km/h <sup>^</sup> (0.06-15.5 mph)
<b>Elevation</b>	0-20% incline	0-28% incline
<b>Sensor Area</b>	102 x 50 cm (40.16 x 19.68 in)	132 x 56 cm (51.97 x 22.05 in)
<b># of Sensors</b>	3,120 optional 6,720	4,576 optional 10,270
<b>Sample Rate</b>	120 Hz optional 240 Hz	300 Hz
<b>Measurement Range</b>	1-120 N/cm <sup>2</sup>	1-120 N/cm <sup>2</sup>

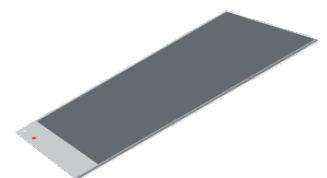
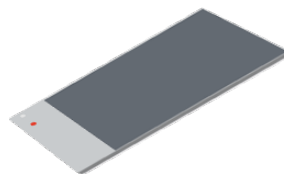
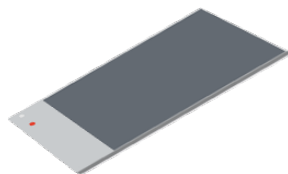
\*Includes reverse belt option

<sup>^</sup>Leakage certified medical version available

<sup>+</sup>Requires 220V power supply

<sup>^</sup>High speed option up to 40 km/h (24.85 mph) available

## PLATFORMS & WALKWAYS



	<b>Plate-SX</b> (FDM-SX)	<b>Plate-S</b> (FDM-S)	<b>Walkway 1.5</b> (FDM 1.5)*
<b>Dimensions</b> L x W x H	55 x 40 x 2.1 cm (21.65 x 15.75 x 0.83 in)	69 x 40 x 2.1 cm (27.17 x 15.75 x 0.83 in)	158 x 60.5 x 2.5 cm 62.20 x 23.82 x 0.83 in)
<b>Sensor Area</b>	40 x 30 cm (15.75 x 11.81 in)	54 x 33 cm (21.26 x 12.99 in)	149 x 54.2 cm (58.66 x 21.34 in)
<b># of Sensors</b>	1,920	2,560	11,264
<b>Sample Rate</b>	120 Hz	120 Hz optional 240 Hz	100 Hz optional 200 Hz / 300 Hz
<b>Measurement Range</b>	1-120 N/cm <sup>2</sup>	1-120 N/cm <sup>2</sup>	1-120 N/cm <sup>2</sup>

\* Walkway 1.5 can be paired with a second Walkway 1.5 to achieve 3 meters in total length