

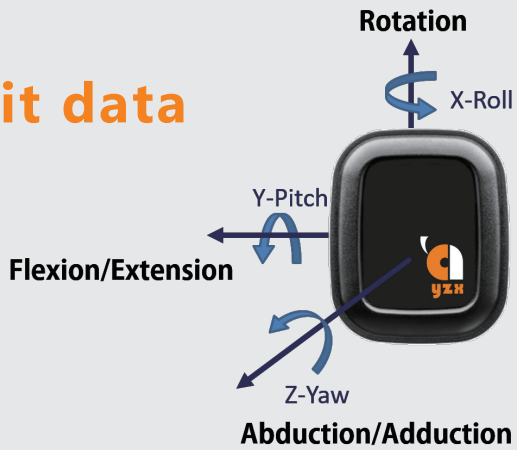
Features

1. Utilizes AI motion analysis technology
2. Provides real-time motion trajectory
3. Supplies timely report before-and-after insole intervention
4. Achieves clinically acceptable accuracy of 2.4deg RMSE (Root-mean-square deviation)

Benefits

1. Professional analytical know-how gets the optimal motion data
2. Easy-to-operate OTC system provides detection results in 3 minutes
3. Real-time data feedback for consumers to pick up the right insoles
4. Visual evaluation report instantly available
5. Uniqueness is guaranteed by patents

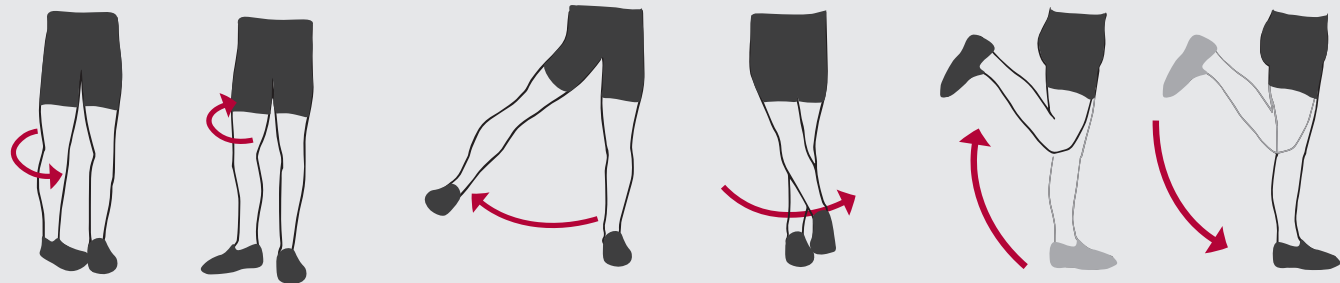
IMU gathers gait data



● Internal / External rotation

● Abduction/Adduction

● Flexion/Extension



Application

AccelYZX makes it easy for users to find the optimal insoles and shoes for ideal pronation, thus permitting swift sales.

AccelYZX is able to:

1. Enhance athletes' potential performance by analyzing their balance, alignment and power transfer during running, walking, racing or cycling.
2. Shorten operation patients' recovery time and help restore their body alignment by monitoring their post-operation hip, knee and ankle positions.
3. Reduce stroke, Parkinson's disease and elderly patients' risk of falling by monitoring their balance and determining optimal physiotherapy solutions.
4. Help boost employee workplace safety and efficiency by providing measurements and matching appropriate anti-fatigue insoles.

【Hardware】Motion Sensor

- USB Charging: DC 5V
- Wireless: Compatible with Bluetooth 4.2 and up
- Internal storage: 64 MB
- Recording time: Depends on output rate, 6 hours @60Hz
- IP Rating: IP68
- Size: W30.4 x D36.3 x H10.8 mm
- Weight: 11.2 g

【Software】AccelYZX

- OS : Android OS 8.0 or above 、 Windows 11
- Windows CPU : Intel Core i3 or AMD Ryzen 3
- RAM : 8 GB
- Storage : 10 GB
- Resolution : 1920x1080
- Bluetooth : 5.0

Powered by **IMOTEK**



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HELPS YOU FIND THE RIGHT INSOLES

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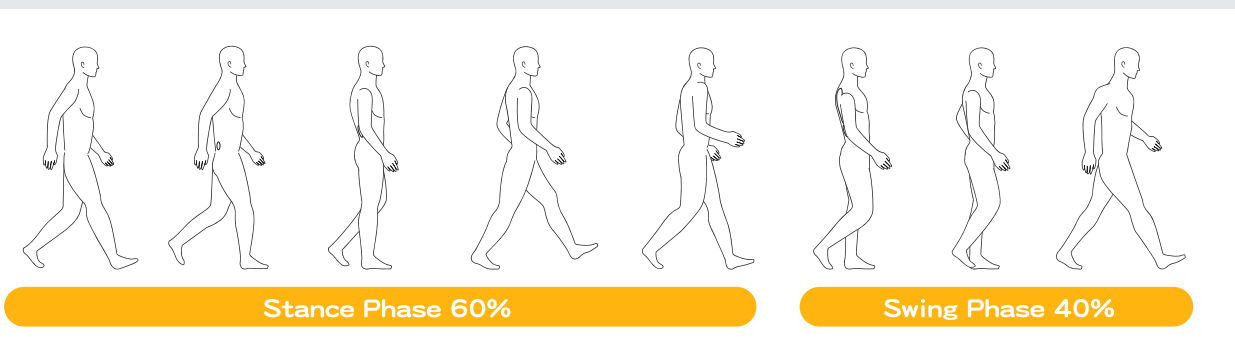
Accel-YZX Motion Analytical System

The **Accel -YZX Motion Analytical System** helps you find the right insoles with optimal dynamic performance, stability and stress reduction.

Our system utilizes human motion analysis to analyze the lower limb movement performance in the human gait cycle. Human motion is captured by using inertial measurement units (**IMU**).

AI algorithms will then accurately analyze the complete gait cycle, which is composed of 60-62% stance phase and 38-40% swing phase.

This simple and easy-to-operate system enables to swift over-the-counter and off-the-shelf sales.



Analysis

- Gait motion trajectory
- Stance phase
- Swing phase
- Angle balance
- Power balance

► STEP 1



Put on Sensors

- Face up LED light
- Put on sensors 4 fingers under patella

► STEP 2



Gait Measurement

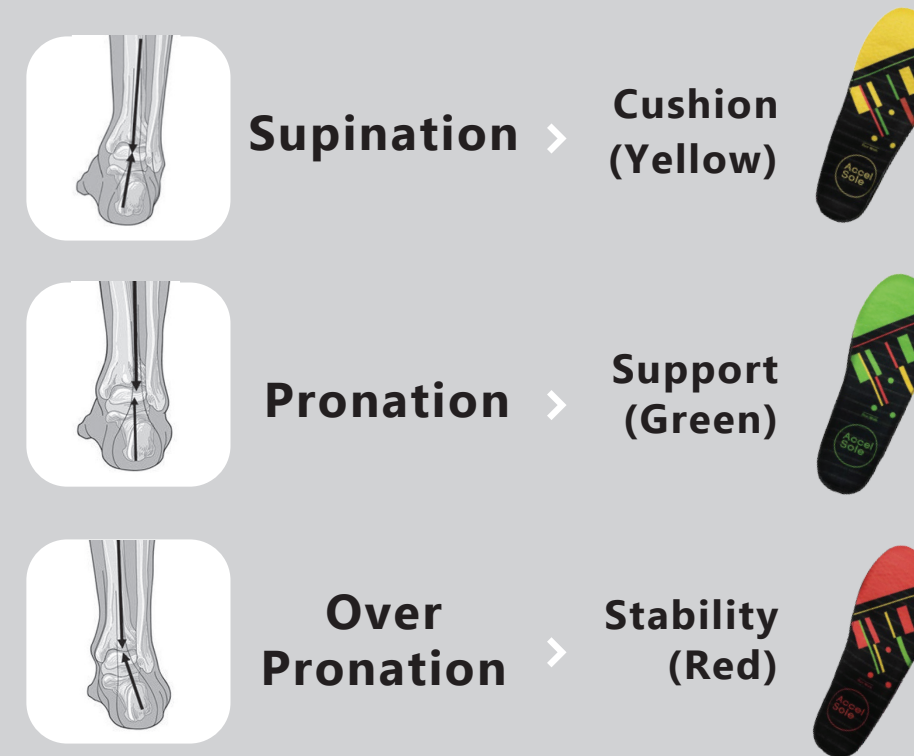
- Capture the knee joint trajectory during gait via IMU sensors

► STEP 3



Capture Steps with AI

- Utilize motion analysis technology and algorithms to obtain valuable information about gait types for matching optimal insoles



► STEP 4



Match Optimal Insoles

- Automatically identify and match the most suitable insoles based on the collected data

► STEP 5



Timely Report

- Replace original inserts by the recommended insoles
- Re-process gait measurement and witness the difference in 3mins