Tekscan™

Return-to-Sport & Performance Assessments with SB Mat™

The SB Mat™ system is an assessment tool to evaluate the effectiveness of strength and conditioning programs, track progress over time, help develop injury prevention programs and support return-to-sport decisions.

- **Identify inefficiencies due to asymmetries**
- **Capture baseline data to develop training programs**
- **Assess patient progress & treatment plans**
- **Real-time data demonstrates the effects of movement/training**

Key Insights for Athletic Testing

Quantitative data from the SB Mat can help you make better return-to-sport decisions, optimize athletic performance or assess injury risk. The SB Mat has a large active sensing area making it ideal for semi-dynamic movements like squatting, hopping and take-off assessments.
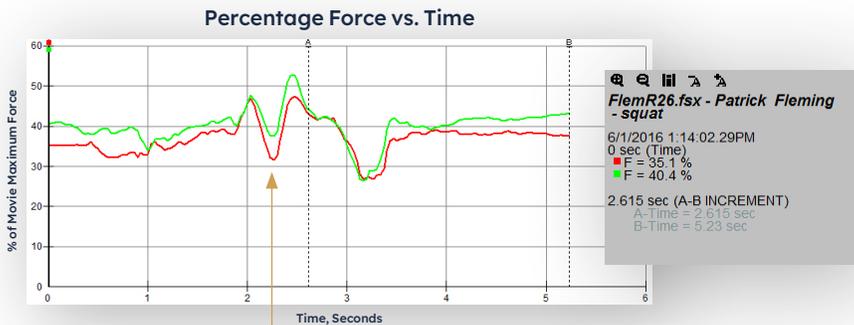
Take-off Assessment

Squat Testing

Lunge Testing

Percentage Force vs. Time

% of Movie Maximum Force

Time, Seconds

FlemR26.fsx - Patrick Fleming - squat
6/1/2016 1:14:02.29PM
0 sec (Time)
F = 35.1 %
F = 40.4 %

2.615 sec (A-B INCREMENT)
A-Time = 2.615 sec
B-Time = 5.23 sec

Easily identify asymmetries between left and right sides.

Drive Your Decisions with Objective Data

Graph demonstrates asymmetries between left (green trace) and right (red trace) sides during squatting, meaning athlete is potentially at risk for injury. Note how the subject is applying more force on their right leg in the example.

Portable, Versatile Platform

The SB Mat is a portable, durable platform with minimal set up time ideal for capturing data from dynamic movement. The large surface area reduces risk of targeting or injuries during testing.

- **Dynamic weight distribution information**
- **Evaluate timing to compare bilaterally**
- **Immediate symmetry and performance measurements**
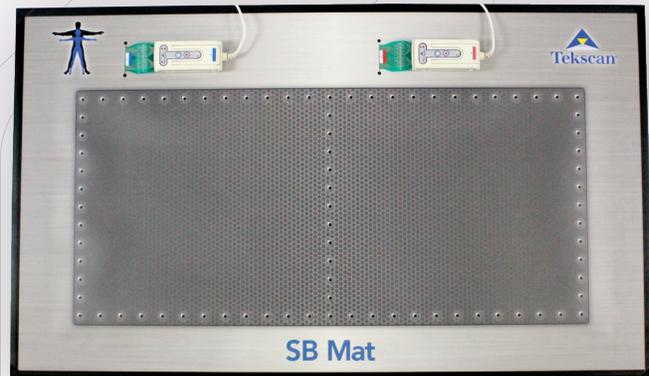
SB Mat Specifications

Platform Dimensions	122.2 x 71.4 cm 48.13 x 28.13 in
Active Sensing Area	97.5 x 44.7 cm 38.4 x 17.6 in
Sensor Resolution	1.0 sensels/ cm^2 6.3 sensels/ in^2
Thickness	0.78 cm 0.31 in
Software	FootMat Software for Researchers Add-ons: • Sway Analysis Module (SAM) • Video Synchronization
Scan Rate	100 Hz
Data/Power Connection	USB 2.0
Weight Capacity	544.3 kg (1200 pounds)
Recommended Footwear	Running shoes or other flat bottom shoes. Do not wear cleats, running spikes or any other shoes with sharp points.

Tekscan™

617.464.4281 info@tekscan.com
1.800.248.3669 tekscan.com/biomechanics

Call Today for a Demonstration!